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Notes on the
Lectures of Dr Benj^r S. Barton
+ Professor of -
Materia Medica
Natural History
and
Botany in the
University of Pennsylvania

Taken by
Thos. D. Mitchell -
1809-10

THE UNIVERSITY OF
CHICAGO

Letter to the

Lectures of J. B. & A. B. B. B.

— Lecture of —

Material & Medical

General History

and

Behavior of

University of Chicago

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11 1/2
11 1/2

The author of the present work is a native of the
 of Germany in the year 1780. He was educated in
 the most liberal manner, and has been distinguished
 in the study of the sciences, particularly in the
 history and antiquities of his country.

He has been employed in various public offices, and
 has acquired a deep knowledge of the laws and
 constitution of his country. He has also been
 distinguished in the study of the sciences, particularly
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Materia Medica is that branch of
 Science which investigates the nature of
 Medicines and their proper use in dif-
 ferent diseases—

+ This has been useful in increasing our
 knowledge of the utility of medicines—

By Chemical analysis I can determine
 what part of Opium is the active—whether
 the Gum or Resin—it is the latter—

Lecture 2nd

November 10th 1809

The arábians first used the Cathartic aloes - The use of Mercury in the Venereal disease is derived from Arabia - They were not good anatomists nor Physiologists - they wrote on the pulse and vision - they knew something of galvanism and of vegetable physiology -

November 14th 1809

An enquiry to ascertain the medical properties of certain articles - Man is irresistably compelled to seek the necessities of life - In all countries persons have been acquainted with classes of vegetables which they used in diseases - I divide my analysis of medicinal bodies into 1.st Their Chemical examination - 2nd Their botanical affinities 3rd Their sensible qualities & Lastly experience in the use of them - in each of these I shall make some remarks - I shall consider the doctrine of signature to medicine, previous to entering on my proposition - cursory observation to

according
to Indian
opinions

He who feeds on venison is more swift than he who feeds on beans or fowl - Some savages will not let their children touch a mole because it is blind, lest the children should lose their sight -

1st Chemical Affinity - The study of Chemistry is important to Materia Medica - its progress will advance the latter science - To discover the properties of medicine, we can employ what is called Resolution - that is a process in which the properties of the simple substances are not destroyed - by such means we may find what Cullen calls a virtue and we may even find a new medicine - The resin of opium is not purgative - so that we need not suppose all resins medicines to be purgative -

Davy tried to analyze Farglone - though its analysis would be of no profit yet I should like to see it - In the Querc. Bark, a principle has been found which Chemists call Chinarin - to this principle the bark owes its virtues -

The Liquidambar yields a resin called,
Liquidambar, the quantity of which differs
materially in different States. —

Chemical analysis cannot be very advantageous in practice.

2. Botanical Affinity - This is necessary in the study of Materia Medica - by botanical affinity I mean that similarity which subsists between ^{different} vegetables in their flower and fruit. - The affinity between different plants being established, it was thought that plants which resembled each other in flower or fruit must be possessed of the same medicinal virtues. - It is certain that botanical affinity is necessary in the investigation of the powers of medicines - so much so that physiognomy of plants - in chemical results plants agree greatly. - Botanical affinity is not a sufficient guide to investigate medicines - by a man's countenance we sometimes may judge of his virtues or qualities, but we may be deceived. - Isaac Newton's countenance showed no wonderful intellectual marks - as with men so with plants - their external characters often deceive us with respect to their virtues. - Species of the same genus frequently differ in their qualities. - By the natural order of plants we mean the assemblage of plants different in appearance but all of the same genus - all grapes are innocuous but one which is poisonous. - The Scullen mixed with flour and made into pith, kills fish readily. - The heedless practitioner might be much deceived in trusting to botanical affinity alone. - The Romans cultivated the *Papaver Somniferum* as an eatable article, for we do not know that they used it as a medicine. - The seeds of poppy yield an excellent oil like oil of olives which is perfectly innocent. - I am of opinion that botanical affinity unaided by chemical analysis will not be sufficient to fix the virtues of plants. -

[Faint, illegible handwriting in a cursive script, likely a historical document or letter. The text is written in a dark ink on aged, yellowed paper. The script is dense and fills most of the page, with some lines appearing more prominent than others. The overall appearance is that of a historical manuscript or a very old letter.]

Look at page 21 (27)

better not acid - two beets are brought to our table
the red and white beet - according to the doctrine
of Linnæus we should expect ^{beet} the red to be more
acid than the white beet, but the reverse is true -
he says the colour white indicates sweet - this is
correct with respect to white currants - he says
the colour black indicates an ungrateful taste -
this is true in many respects - the black currant
is as harmless as the red but it is ungrateful -

November 17th 1809

I consider life the same in all animals and
vegetables -

Linnæus divides all medicines into nervous, muscular
and visceral - this is very imperfect - Boerhaave supposed
that the body was a system composed of subordinate
systems - The animal frame is a chain composed
of a number of links, each of which is mutually de-
pendent on ~~each~~ the other - I believe that certain med-
icines affect particular parts in preference to all others -
some medicines operate specifically, but this rule is
limited - it would ^{be} well to banish the word specific, as
applied to medicines - I would substitute the term
idiopathic, meaning that some medicines act on
one part in preference to another, as Sacch. Saturni -
Erasmus Darwin proposed a new division of Materia
Medica under the following heads: 1 Nutrientia -
2 Excitantia - 3 Secernentia - 4 Solventia 5 Invert-
entia - 6 Revertentia 7 Sorpentina - I shall not
follow this arrangement - Excitantia & Stimulantia are
synonymous - Darwin's Secernentia embrace very

different medicines - Opium has salivated and also produced a flow of urine and perspiration - Darwin's theory is not supported by a sufficient number of testimonies - some writers arrange the *Materia Medica* in alphabetical order. this is not correct - Cullen's arrangement is better than Darwin's - In treating of vegetables I will not follow the botanical arrangement - The plan of Cullen is tolerably good -

November 20th 1809

we have agreed in dividing the science of *Materia Medica* into two branches

1. *Materia Alimentaria*.

Too much attention has been devoted to the first of these - I shall inquire into the virtues and properties of aliments - It has been said that lectures on this science must always begin with aliments - I shall consider their use in diseases - By aliments we mean those substances which when taken into the body, supply the solid and fluid matter of it - Cullen says, the matter of vegetables fitted to form the animal fluids, is an acid, sugar and oil - This is not entirely correct - I shall begin with acid - Cullen thinks an acid might be found in sugar - he thinks acid is necessary to our fluids - almost every species of vegetable aliment is capable of acescent fermentation - he says an acid is always present in the stomach - He says that without pure acid our fluids would soon putrefy - Scurvy is cured by acescent aliments vegetables are not necessary to life - whole nations live on animal food - Cullen thinks that ferri acids do not enter our fluids, because they pass unchanged thro' the secretions - I deny this because we take vitriolic acid diluted with safety

November 16th 1809Sensible qualities of Plants

By the sensible qualities of plants, I mean their taste smell and colour; the ancients supposed all plants to be similar in virtues, whose external appearances were the same - plants of different species often have similar external marks - the ancients inferred the properties of plants from their taste and smell - partly and so far as are alike in every respect -

This method has laid the foundation of a great part of our knowledge of medicine - it was practiced by the Indians - their olfactories are more exquisite than those of civilized nations - deleterious plants become inoffensive to some persons by habit - Dr Cullen says that substances which neither affect the taste nor smell, should be rejected - but some of the most powerful medicines have no taste or smell - the venom of the viper which is poisonous is insipid and ~~insipid~~ inodorous, says Santana - I have repeated Santana's experiments - I took from a healthy viper a quantity of venom - I put 6 drops on my tongue with confidence. I found it to produce a sensation on my tongue like that of Indian turnip or the Arum - this sensation extended to the fauces - I was alarmed and washed my mouth with cold warm water, 50 times, but the purpency still remained - We know that in certain seasons the viper's venom is inert, perhaps this was the cause of the different result of the experiments of Santana - Whole system of our science have been founded on the notion that the virtues of medicines might be known by their taste or smell - Mr Hillegas of this city diseased could tell us drinking a dish of tea

27

whether the sugar had been cut with a knife or
had been broken otherwise -
sometimes, the taste and smell indicate the exact
virtues of plants - The different tastes of plants
are not easily named and there are tastes that
cannot be comprehended under any general head -
the common tastes are acid, sweet, styptic &c -
bodies which give out a strong odour were thought
to act on the ~~sensory~~^{nervous} system, as musk
as a general rule this is fundamentally erroneous.
Linnæus is mistaken in saying that odiferous plants
act only on the nervous system and that sapid bodies
act only on muscular fibres - there is more difficulty
in reducing to order, odours than plants - both are fal-
lacious tests in ascertaining the virtues of medicines -
a division of odours is difficult to be made - The
science of Materia Medica cannot be promoted
by an attendance to the odours of substances - some
odours, however powerful, have no effect on some
persons - so is it with taste - great evils might
arise from the practice of determining the virtues of
plants from their odours and smell - Linnæus was
of opinion that the colour of plants could decide their
qualities - salad when green has a strong taste and
is diuretic - when ~~dry~~ blanched or white it is insip-
id and not diuretic - this is owing to its greater
strength when green - Linnæus says the colour yellow
indicates a bitter taste - this is true in many cases
as in turmeric, quassia, gentian &c - the yellow
plum is not bitter nor the yellow strawberry -
he says that the colour red indicates an acid - as the
cranberry - sumach - the red fruit of black alder is
look at page 21²⁴.

and benefit - Cullen says they irritate ulcers, but do not cure scurvy - this is not always true, for acids have cured scurvy - the alimentary quality of acids says Cullen is confined to vegetables - vegetable food is by no means necessary to animal life - there is no such thing as carnivorous or herbivorous animals, as Hunter says - The lion which is said to be carnivorous eats vegetable matters - In Africa we find whole nations who eat no vegetable matter yet they are not affected with scurvy - The inhabitants of England 300 years ago, lived on animal food (in certain parts) yet they had no scurvy - that vegetable matters undergo the acetous fermentation is argued by many besides Cullen - but Hunter, Spallanzani & I prove that this is false, that all solution in the stomach is effected by the gastric juice - chemists for a long time supposed there was no difference between vegetable matter in a dead and living state - a quantity of acid is often ejected in the act of vomiting - this when saturated with Potash forms the Sal dimorcius - I doubt whether the acetous fermentation ever takes place in vomiting digestion - It is not fair to form notions of the fluids when out of the body from their state in it - Hodge said that when acid existed in the stomach it depended on a disease of that viscus - Dr Bland found that flesh in saliva ~~with~~ was dissolved with fermentation - he never found litmus paper reddened by the contents of the stomach - nor did the latter effervesce with chalk - Spallanzani proved the same - Dr Wilson of Penna. was opposed to fermentation in the stomach - I believe that solution in the stomach is independent of fermentation - there may be an acid, sometimes, in the stomach - other acids besides the vegetable have been found in the stomach - Dr Young says, that when an acid is sensible to the taste, in gastric juice, it is not vegetable, but one sui generis or purely Phosphoric - If digestion were a chemical process, it would

exhibit appearances similar to those in chemical phenomena. in healthy digestion, no foetid odour is ejected, the breath is good. In a patient of mine in 1794 the breath smelt strongly of Phosphoric Acid. This proceeded, no doubt, from the food being undissolved. the patient had the Rickets, the bones almost dissolved. I believe the phosphoric acid of bone comes from the bread &c that we eat - whatever be the substances digested, the same effect takes place in a healthy stomach - a chymous mass of a homogenous nature is produced. Pro. Hunters proof of the digestion of the stomach after death made me think that this process might go on out of the body as well as in it. I think the stomach is very seldom if ever digested. as digestion in membranous stomachs is ~~accomplished~~ accomplished by the Gastric juice, it is necessarily accompanied with life - it cannot take place after death. heat is no doubt necessary to digestion, but less so than some have imagined. the gastric juice of the pike is the strongest. I do not pretend to give a complete view of the digestive process. I cannot think the bile is an excrementitious fluid - the bile is often naturally poured into the stomach to mix with the chyme in a great number of animals even when the pancreatic juice is not

November 21st 1809

I do not say that Gastric juice forms perfect chyle. this is not completely effected in the stomach - digestion is not finished until chyle is formed. it appears that the alimentary matters taken into the stomach are not formed into perfect chyle until they have passed into the intestines and have been mixed with the bile and pancreatic juice - is chyle completely formed in those animals into whose stomachs bile is mixed -

* It is not doubtful if any fact can be established
by experience then is the nutritious property
of Sugar fully established. If this doubtful
it is doubtful whether D.P. has a right in
his shoulders.

- diately thrown - chyle is not perfectly formed in the stomach but in the small intestines - I do not say there are no chyloous vessels which take up chyle in the stomach, but there are few in number - in some fishes, digestion is partly accomplished in the esophagus as Spallanzani says - in man the esophagus is not entitled to the name of a digestive organ, except the lower part of it - but perhaps the dissolved aliment continues to be more perfectly animalised throughout the whole lacteal system -
 & Hodges Man. Diff.
 Perhaps acial acid is alimentary -

Of Sugar

It is doubtful* whether sugar is alimentary, but in a saline state as in the sugar cane it may be nutritious - In treating of sugar as an aliment I shall first show its nutritious properties - the people of warm climates live on fruits which contain much saccharine matter as the date &c. - the fig which contains much sugar is very nutritious - its nutritious properties depend partly on its mucilage - the Indians are acquainted with the nutritious property of honey - they mix it with Indian meal - half pound of dried beets yield 2 1/2 of saccharine matter - its nutritious properties are owing to its sugar - sugar is contained in most farinaceous seeds - vegetables contain much saccharine matter as is proven by their tendency to run into the various fermentation - wheat and barley seeds contain much sugar - pease, beans and leguminous seeds contain sugar - young pease are more nutritious than old ones - Professor Murray of Göttingen believes the slaves of West India get fat on sugar canes -

I think sugar in its pure state is the most nutritious of all substances - Boerhaave said that excess of sugar emaciates the body - Dr Grandfather made it a practice to eat as much sugar on his bread as he could and he also ate it in all his victuals - he lived to be 99 years old - sugar contains no worse substance than milk or honey - I am convinced that sugar induces plethra - Pro. Hunter prescribed sugar as a restorative to emaciated patients - sugar is extremely nutritious to other animals besides man - but not so to all animals - sugar is an anthelmintic to some worms - among quadrupeds, sugar is nutritious to horses & cows - In England, cattle are raised on sugar and saccharine matters - sugar is one of the most nutritious articles and keeps a long time without spoiling - sugar is antiseptic - venison prepared in sugar resists putrefaction whole summers - mutton keeps sweet in summer when kept in sugar - dead bodies have been preserved in honey ~~which~~ without spoiling - sugar is good in scurvy - scorbutic gums are often cured by sugar and water - Dr Cullen thinks the scarcity of Epidemics is owing to the great use of sugar - in West Indies sugar is greatly used but pestilential fevers are common there. Pringle fancied he saw putrefaction in many cases where we know it could not have existed - In this country we are too well acquainted with malignant fevers to believe it possible to cure them with sugar - I have known persons who lived on saccharine diet, who fell early victims to our yellow fever - A vegetable diet is inefficacious in curing Lepa - this diet or a diet of sugar will not cure this disease - Lepa is not less common where sugar is much used nor more prevalent where animal diet is used -

* what are they -

Leprosy and syphilis are modifications of the same disease - this is proven by facts - The saccharine principle is common to vegetables - it is said that sugar is not found in mushrooms and fungus roots - some suppose these to be animal matters - Humboldt extracted sugar from fungus roots - Bees obtain honey from some fungus plants - the reason why they have not much sugar is because they mostly grow where light does not reach them - Lodyce says there is no sugar in the Lichens - sugar has been produced from grapes, shrubs &c - The people of Java obtain sugar from various plants - some obtain it from Cocoa - no plant except the maple tree affords more sugar than the sugar cane - it has been obtained from hickory - sugar is contained in animal substances - milk and perhaps sugar exists in blood in a healthy state - I am not certain of this - Blood has not a saccharine taste - barley has not a sweet taste, though it contains sugar - sugar has been extracted from the urine of patients in diabetes - 20 $\frac{1}{2}$ of sugar were procured from the urine discharged by a diabetic patient in one day - sugar is certainly diuretic in some persons - honey is diuretic - the exhibition of sugar in diabetes is improper - sugar is said to have produced Diabetes - It has been thought that the sweetness of the urine in diabetes depended on the diseased state of the kidneys - Dr Pemberton thinks the sweetness depends on some process performed in the intestines and stomach - sugar in diabetes is perhaps owing to the morbid state of the heart, and palpitations, irregular pulse &c - This sweetness exists in the blood in diabetic patients - the symptoms attending diabetic patients is palpitation - violent headache &c -

Nov. 23^d 1809

Animal sugar contains less azote, carbon &c than common sugar - according to experiments sugar is an oxide - consisting of carbon, oxygen and hydrogen - 64 parts of oxygen, 24 Carbon, 12 hydrogen - The sweetness of sugar is owing to its oxygen - when calcined it leaves ashes, composed of lime or calcareous matter if treated with Nitric acid - maple sugar is less soluble than common sugar in hot water - sugar in vegetables and animals is abundant - it is said to exist in the mineral kingdom, as in the barilla - How far is a diet of sugar productive of Dyspepsia? sugar may be used to a great extent without being injurious - children consume a great deal - in some arthritic patients sugar is injurious, if dyspepsia exist - saccharine jellies have relieved calculous affections - the fig is good in Calculus - the vulgar opinion respecting sugar is unfounded - it decreases worms - I have allowed in cases of worms sugar and molasses twice a day - the vulgar say that sugar injures the teeth - where the teeth are bad it may injure them - it does the teeth are whiter by using it - when they are sound, sugar will not hurt them - the scotch have white teeth, though they eat much sugar - crystals of tartar act on the enamel of the teeth -

Honey is a vegetable substance - there is a great deal of honey which is animal, deposited on the leaves of trees by insects - this is secreted from their rectum and carried away by the bees - honey is less analogous to sugar than has been supposed - Cullen says sugar and honey are alike in their properties -

They do not resemble each other but differ in the degree of nutriment - sugar contains most - the laxative qualities of honey make it less nutritious - The analysis of honey shows it to contain sugar, carbon, oxygen, hydrogen - honey possesses medical properties different from sugar - honey has been recommended in all ages in cough - Its good virtues depend on matters which are often combined with it - it sometimes contains an anodyne quality - honey has been recommended in asthma - it is sometimes efficacious - Honey like sugar is employed in generally complaints, of this I could adduce many instances - it is more powerful than sugar as an antilithic - I have asserted that honey dew as it is called, is animal - it is found in Virginia and other parts - **Oil** - I have no hesitation in pronouncing this a nutritious substance - oily vegetable seeds are said by many not to be nutritious - the nutritious quality of pease, beans, nuts &c. is well established - in Britain they are cultivated and constitute the chief diet - a pound of pease or beans is more nutritious than a pound of bread - oil is always present in animals - I believe that oil constitutes a great part of the fluids of man - oil whether animal or vegetable forms a part of the diet of all nations in the world, this oil is diffused in the chyle and absorbed by the lacteals - oil mixes with the chyle - I have seen chyle in the blood vessels, but never have I seen fat there - the oil is secreted by the blood vessels - some have said it is found on the surface of extravasated lymph - this I have never seen - oil is laid up in adipose membrane

and is removed thence by absorption - it is absorbed in scurvy, venereal disease &c. - oil is absorbed into the mass of blood. Animals which retire to dens in winter are nourished by the absorption of the oily matter in the adipose membrane - all do not believe this fact - Haller denied it - he says that such animals discharge no feces, do not perspire - if they passed no feces we might say they required no nourishment - frogs and lizards discharge no feces - the lymphatics absorb for a long time after an animal is dead - I have spoken of the interrupted life of hibernating animals - I will now describe their opposite state - this is not interrupted life - the pulse is slow - these animals are often roused by the application of stimuli - some of them take stimulating matters into their quarters - they eat these at intervals - that fat is actually absorbed by ^{hibernating} animals is certain, when they come out of their caverns, they are very weak and lean - on opening them no fat is to be seen - to this power of the lymphatic vessels we must ascribe the removal of fluids in hibernating animals - when horses are ill treated in summer & run down as it is called they die suddenly - a large quantity of fat has been ^{found} floating in their blood vessels - Naturalists have supposed that insects without red blood are preserved by the absorption of their fat - all insects like these passing their time under ground are preserved by the absorption of fat laid up in the adipose membrane - fat is sometimes absorbed by the lymphatics in the human body in emaciated persons - fat has been seen in the lymphatic vessels

November 24th 1809

Butter is nutritious - one pound of bread with 2 $\frac{1}{2}$ of butter gives more nourishment than 3 $\frac{1}{2}$ of bread without butter - one of the I have not forbidden it to patients in Phthisis pulmonalis - the excessive use of fatty matter may be injurious by inducing plethora - in fevers, oily matters are injurious except in such large doses as to prove Cathartic - olive oil is much used in the Barbary States - rancid oil is highly stimulant - I conclude this subject by saying that the fatty matter of ducks and geese is known to be useful - I have now considered acid, sugar and oil - Man is the most omnivorous of all animals - his system accommodates itself to a change of food better than any other animal - mucilaginous matters are nutritious - L'advée says mucilage and gum are most nutritious - almost all vegetables destitute of colour are insipid - they have been called Gums - the Gum Tragacanth has some properties of farinaceous matters - The mucilage of Gum Arabic is extremely nutritious - the Africans almost live on it and water - 1000 people lived 2 months on Gum Arabic - it often supports the system in Phthisis Pulmonalis - B. Cullen admits Gum Arabic to be alimentary - he considers it to be a simple substance - in powder, it resembles meal - it is like Salep - gum differs somewhat from farina in its properties - Gum contains oxygen, hydrogen, carbon and azote - contains more oxygen & less hydrogen than sugar - Fourcroy says, sugar contains a little Phosphoric Acid - all substances which nourish the system are compounds - Probably the nutritive quality of substances depends on their oxygen -

The assemblage of matters employed in aliment is an extensive source of nourishment to man - & Young, ripe. Gum may differ from mucilage in their properties - It is said that all plants yielding gum have as-tringent bark ^{viz} as wild cherry - there is little as-tringency in the barks of plants which afford mucilage - there are exceptions to this rule - wheat and rye in the wild state are astringent - the reverse of this takes place when they are cultivated - this changes the gallic acid or destroys it - The solution of gum is transparent (says a writer) that of mucilage is opaque - water in the state in which we receive it is impure - it is nutritious - many persons have lived on it for weeks - Haller speaks of it - fishes afford proofs of the nutritious nature of water - a rattle snake in my possession has lived 23 months on water alone - vegetables are sometimes nourished with nothing but water - I think Carbon is nutritious to the system - it is the best aliment for vegetables in a moderate quantity - carbon is nutritive to poultry - to the hog it affords nourishment, as in the case of corn - carbon enters largely into the composition of sugar - gums contain more carbon than sugar - seeing that carbon enters into two of the most nutritive substances, we may consider it as being extremely nutritious - cal-careous earth is fitted to form animal fluids and to nourish the system - Fordyce says it yields the body no nourishment - The calcareous earth of the Phos. Lime constitutes a great part of our solid - Calcareous earth and the Phos. Lime is obtained from our aliments - they exist in the blood, chyle, semen &c. - Phos. Calcis has been detected in the semen by Chemists - calcareous earth is an ~~independent~~ ^{essential} animal substance, independent

in the deposition of animal & vegetable matter -
 Calcareous earth is the chief nutriment of many fishes -
 birds of different kinds swallow bones by which they
 are nourished - stones are necessary to the digestion
 of food in many birds - Dr Thompson says Calcareous
 earth is necessary to the formation of the shell of the egg -
 I am not certain of this in all cases - the facility of the
 digestion of calcareous earth and its ready passage in
 the course of the fluids proves its nutritious quality -
 In our country many Indians make bread of the
 bones of fishes - Humboldt says it is nutritious - Light
 is nutritious and assists in supporting the system - it
 promotes the growth of vegetables - Light is not
 absolutely necessary to animal life - without light
 the functions of digestion, respiration &c go on, but
 not as well as with light - miners live in darkness -
 The complexion of the Nuns in Germany & Mexico
 are extremely Cadaverous - they are subject to ulcers
 of the breasts - perhaps all this is not owing to the want
 of light - While the seed remains in the earth, light is not
 necessary - heat is necessary to its germination - when
 the plant germinates and meets the light, it cannot
 exist without its agency - they wither in darkness -
 the solar light influences vegetables - it affects their
 colour -

November 27th 1809

Sap moves in vegetables by an irritable principle
 inherent in their vessels - Farmers have supposed
 that lime is useful in agriculture only by attracting
 moisture - thus calcareous earth is of great service to
 vegetables - Lime increases the quantity & quality of crops -

It has been supposed that the calcareous earth and iron in vegetables were formed by their own respiration. The plants which grow in pure or argillaceous water will yield the same result - plants do absorb calcareous earth - arsenic, lead &c. as I proved by experiment - I analysed plants taken from argillaceous and granite soils - the former contained more lime and the wood was much stronger than in the latter - Oaks and elms should be cut from calcareous tracts when wanted for naval purposes - Silex is not nutritious to vegetables - Calcareous earth is alimentary to animals and vegetables - light promotes the function of absorption in plants - Empuric plants are little influenced by the solar light - light affects the taste of plants - hemlock in the light is 10 times as strong as when cultivated in mines - Dr Drake of England found that the cause of the failure of *Digitalis* was owing to its being planted in a situation without light -

Worms when kept from the light are white - Negro children when first born are not black - the blackness of negroes is hastened by exposure to the light -

Nov 20th 1809

Materia Medica - This is the most difficult part of my task, not on account of the number of articles but the difficulty of arranging them

Astringents - I shall not trouble you with a class of this kind, tho' Dr Cullen has used them - there is good reason for retaining the name in some cases -

[Faint, mostly illegible handwriting in a cursive script, likely from an 18th-century manuscript. The text appears to be a letter or a formal document.]

[A small, handwritten note or signature, possibly reading "That's all, I think."]

[Faint, mostly illegible handwriting at the bottom of the page, continuing the text from above.]

If I were to abolish the term astringents I might call them tonics - There is nothing in which a philosopher requires more caution than in changing the arrangement of matters and in making new names. Astringents will be laid aside, Tonics never will - Astringents I propose to divide in a future season into 1. Such as are purely astringent 2. Such as are bitter and astringent 3. Such as are marked with bitterness and astringency - Dr Cullen says astringents are such substances as cause a contraction in the solids and produce in them a condensation - Thén use says he appears in tanning also in their antiseptic qualities - We perceive from Cullen that astringents act chemically on the animal machine in the same way as they do on dead matter - The infusion of bark employed in tanning contains tan or tannin and a peculiar extract, produced also from galls - it is a brittle substance soluble in water - the solution is very bitter and astringent - more soluble in alcohol - this substance is more soluble than the extract - the hide extracts it when put into the infusion - both these substances enter the composition of the hide - the tannin gives the hide its firmness - its weight is augmented - they absorb about one third of the matter into which they are put - 2 or 3 years are requisite for tanning hides - upon the human body the operation of astringents is very different - when an astringent liquor is applied to the body it is diffused and only partly absorbed - I admit the fact that different fluids when applied to the surface of the body are absorbed but in small quantity - very little tannin can be absorbed -

The latter and coloring principle of bile are very
 distinct from each other - human bodies were
 preserved in moss for a century without becoming
 putrid - this proves the antiseptic quality of moss -
 the skin of these bodies did not present the least appearance
 of being tanned though they were in an astringent matter so
 long - astringents do not at all appear to act on the
 skin of living animals - a salamander was kept
 for a long time in an astringent liquor without being
 affected - in incipient gangrene some astringents are
 very useful - bark prevents it only by operating on
 the adjacent living matter - it does not operate here
 as an antiseptic - I do not admit of a class of antiseptics -
 Jas. Moore, Surgeon, in London made experiments to prove
 bark had no astringent effect on living animals -
 I put my hand into a strong astringent liquor - a
 large quantity of perspirable matter was discharged -
 oak bark could not diminish the diameter of the
 perspirable vessels - when we apply alum to the tip
 of the tongue, a corrugation over the whole mouth takes
 place - Dr Darwin says the diminution of the quantity of
 saliva is not owing to coagulation, but to absorption
 of the thin part of the saliva - on this Henry Darwin has
 founded his, *Sorbentia*; the astringent matter has a stimu-
 lating power on the absorbents by which they take up
 the thin parts of the saliva - I am of opinion that corru-
 gation takes place rather than absorption of the saliva in some
 cases - an astringent matter was given to an animal by
 which the pylorus was closed entirely - astringents exert a simi-
 lar effect on vegetables - they have sensibility, I believe,
 also irritability - take a piece of sponge and with a
 lancet cut a branch longitudinally - it will almost bleed
 itself to death if left alone - the hemorrhage can be readily
 stopt by burnt alum - Heberden says astringents are of
 no use except in hemorrhages of the pueral vice - his experi-
 ments differ from mine - the effect produced is owing to the
 operation on the stomach - The paroxysm of fever has been

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

prevented by a dose of bark - hemorrhage has been stopped
by grⁱ of sugar of lead

November 30th 1809 Thursday -

The matter of astringents is said to consist of a certain acid and earth - a combination of acid & earth will not always be astringent - with respect to vegetable astringents, Cullen says acid is not evident - To the chemists we owe our correct notions of the astringent principle - it appears to be saline - the leaves of trees, roots &c abound with an acid called by some Gallic acid - some species of sumac abound more with this acid than any other vegetable - this acid is soluble in 1/2 its quantity of water - it is soluble in alk - when digested with nitric acid it is changed into the acid of Sugar - potash, soda and ammonia unite with gallic acid and form gallates - cultivation deprives many plants of the acid - the potatoes in a wild state is hotter - Dr Woodhouse thought the astringent principle to be a gallate of alumine - Dr Walker has proven that the astringent principle is either gallate of magnesia, alumine. he says the base of gallic acid is not an individual one, Woodhouse says it is - I think Gallic acid is imperfectly understood. the means of detecting gallic acid - we discover the astringent quality by its peculiar taste - astringents induce a sense of constriction wherever it goes - its presence may be detected by an application of sulph. Ferri - a black or blue colour is produced - Dr Woodhouse said the black colour was not struck by mixing Copperas with Gallic acid - The test just mentioned is important in a chemical point of view. it is of less importance in medicine - sage strikes a black colour with copperas - I conclude these remarks by speaking of the Pharmaceutical treatment of astringents - vegetable astringents are more powerful when taken in substance - their powers are extracted by the Gastric juice more than by any other solvent -

The first of these is the fact that the
 human mind is not a blank slate at birth.
 It is filled with a vast amount of
 information, which is acquired from
 the environment. This information is
 stored in the memory, and is available
 for use when needed. The second fact
 is that the human mind is capable of
 learning. It can acquire new
 information, and it can modify its
 existing knowledge. This is done by
 the process of assimilation, which
 involves comparing new information
 with what is already known. If the
 new information is consistent with the
 existing knowledge, it is accepted and
 added to the memory. If it is not
 consistent, it is rejected or modified.
 The third fact is that the human
 mind is capable of reasoning. It can
 draw conclusions from the information
 it has, and it can use this reasoning
 to solve problems. This is done by
 the process of deduction, which
 involves applying general principles to
 specific cases. The fourth fact is
 that the human mind is capable of
 imagination. It can create new
 ideas, and it can use these ideas to
 create new things. This is done by
 the process of induction, which
 involves combining different elements
 to form a new whole. The fifth fact
 is that the human mind is capable of
 emotion. It can feel joy, sadness,
 anger, and fear. These emotions are
 caused by the brain, and they are
 influenced by the environment. The
 sixth fact is that the human mind
 is capable of language. It can use
 words to communicate with others,
 and it can use language to express
 its thoughts. The seventh fact is
 that the human mind is capable of
 morality. It can distinguish between
 right and wrong, and it can act
 accordingly. The eighth fact is that
 the human mind is capable of love.
 It can love other people, and it can
 be loved by them. The ninth fact
 is that the human mind is capable of
 death. It can die, and it can be
 resurrected. The tenth fact is that
 the human mind is capable of life.
 It can live, and it can be eternal.

resinous matter does not dissolve in the stomach, a little gum should always be added - the resin of opium is insoluble in the stomach - and when taken in large quantity is not injurious. with the gum it is very powerful - resin without gum is inert - the stomach will sometimes receive astringents in a liquid form, but will reject them when in powder - astringents give out their qualities to water and sp. vini - they may be treated by infusion or decoction - simple matters are most easily extracted by infusion. I never give decoction for when prepared in open vessels it is inert - I pour boiling water on the powder of bark - spirit, but not let it boil, then decant off the liquor - the astringent principle is soluble in ether -

Astringents are used in Intermittent fevers - they have been recommended in cases of debility. Sælexia &c. Dr Cullen says they are good in the beginning of Dropsy, but they very often do harm - Dropsy always assumes the form of a remittent or intermittent - here astringents are useful - I discovered this in 1796 - In Dropsy with febrile action, tonics are necessary in the intervals - a Hydrocele* brought on by Gout was cured by applying a sinapism to the feet - pain always attends Hydrocele from arthritis -

* what to do with astringents?

The first thing I noticed when I stepped
 out of the car was a warm blanket of
 sunlight. The air was thick with the scent of
 blooming flowers, a mix of old and new.
 I walked slowly, feeling the texture of the
 cobblestones under my feet. The street was
 quiet, almost too quiet. A few people
 were seen in the distance, but no one
 seemed to be in a hurry. I turned a
 corner and found myself in a small
 square. In the center stood a fountain,
 its water spraying upwards in a graceful
 arc. The fountain was surrounded by a
 low wall, and beyond that, a row of
 trees. The trees were old, their leaves
 a mix of green and gold. I walked
 around the fountain, feeling a sense of
 peace. The sun was low in the sky,
 casting long shadows. I stopped for a
 moment, looking up at the sky. The
 clouds were soft and white, and the
 sun was a warm glow. I felt a sense
 of wonder, as if I had discovered a
 hidden world. I turned back and
 walked towards the car. The street was
 still quiet, but now I felt a sense of
 familiarity. I had found a place that
 felt like home.

December 1st 1804 - Friday

In the treatment of Hemorrhages, astringents are the best remedies in some cases - as in the uterus, intestines - The astringent medicines are most indispensably necessary - I shall soon speak of lead as an astringent - perhaps the benefit derived from astringents is owing to a principle not astringent - Ipecacuanha has been useful in some hemorrhages - this medicine though astringent, is not much so - Astringents have been successful in some Diarrhoeas and Dysenteries - I do not think that these diseases arise from the same remote causes - astringents have been recommended in Dysentery - but they are injurious - Dr. Cullen supposed that dysentery depended on a constriction of the alimentary canal - there are some astringents which do purge - The immediate cause of dysentery is inflammatory action of the heart and arteries - some astringents are of use, which cannot seduce inflammation - some physicians use bark in recent Dysenteries and rely on it - I shall hereafter examine this subject - Bark is well adapted in dysentery in which it purges - Astringents have been recommended in Diarrhoea - I think them well adapted to this disease when it depends on a languid state of the Intestines -

Diarrhoea sometimes depends on febrile action - it often depends on contagion and other stimuli - going leaving the feet, often attacks the intestine, producing Diarrhoea - in such cases Astringents do harm - when the disease is the effect of febrile action, a slight salivation is useful - low diet - in diarrhoea, from febrile action, astringents produce bad effects - such cases I have had under my care - In these cases, I do not think, bleeding from the arm good - use leeches, blisters &c. - In arthritic diarrhoea or diarrhoea depending on gout, astringents do harm always - ^(except in old age) they are never necessary to subdue it - use bleeding, low diet - blisters to the feet and ancles - this brings the gout to its old situation - In arthritic diarrhoea of old persons, we have to use astringents -

Fluor Albus, Leucorrhoea, or Whites - the most striking characteristics of this disease are the discharges from the uterus - these are of a serous nature - like the white of an egg - but it is sometimes yellow like sulphur - astringents have been used in this disease - Physicians frequently fail of curing it - I think the astringent plan has been often successful - I have succeeded with astringents - I am aware of the distinction necessary to be drawn

between the different stages of this disease —
 Sometimes the discharge is owing to febrile action
 and increased by the increase of the latter — One
 species has been called Fluor albus calidus,
 in this, astringents are hurtful — another is
 called Fluor albus frigidus — here astringents
 are good — this distinction was first drawn by
 Dr. Darwin — we should always keep it in
 view — by it we are enabled to explain the cause
 of our failure or success in the disease —

In chronic Fluor albus, astringents are good —
 I have mentioned fever as one cause of Leucorrhœa
 in this species I have succeeded in curing the
 patient by the application of blisters to the lumbar
 region — the cure is then often effected in 48 hours —
 here astringents would have been useless and in-
 jurious — In Gonorrhœa, astringents are
 sometimes good — when accompanied with fever,
 they do harm — when the disease is of a chronic
 nature, astringents are best — It is very difficult
 to distinguish Gonorrhœa from Leucorrhœa in
Females — I have seen cases where men have
 contracted Leucorrhœa from their wives —

Diabetes — In this disease astringents sometimes
 do harm — in this disease the kidneys are often
 enlarged — violent fever is sometimes the cause

& he supposes them to act by abstracting
 acid in the stomach - this is not correct -

of Diabetes — In diabetes from bilious fever
 Emetics relieve the patient, when astringents
 would never cure — I have used Urtic and
Tart. Emetic in conjunction with small bleedings
 successfully — astringents are useful in
Diabetes unaccompanied with Fever —

Pyrosis — in this disease, astringents have been
 found useful — I have used Kino with ad-
 vantage — In colliquative sweatings, astring-
 ents have been found useful — in the sweating
 stage of phthisis pulmonalis also —

The efficacy of astringents in relieving the pains
 of calculi, is great — I shall speak of it in an-
 other place — Uva Ursi in Calculus has
 produced happy effects —

• D. Cullen's doctrine of the modus operandi of
 astringents in Calculi — his theory is very
 unsatisfactory — I shall speak of this when on
 the subject of Uva Ursi — Many astringents
 relieve the pains of calculi — I do not say that
 astringents exert a specific effect on calculi —
 I have known calculi to be expelled by the
 use of vegetable astringents —

W. Sanford, who died lately — used Uva Ursi
 in powder for Nephritis — he used it also in
 * If this is not true, offer a better one, before you deny this.

in tea - while he used it, a number of small
stones were excreted - when he left it off; no stone
came away - I know not how astringent operate
in the effluvia of calculi; but such is the fact -

[The following text is written upside down and is largely illegible due to fading and bleed-through from the reverse side. It appears to be a continuation of a medical or scientific discussion.]

[Faint, upside-down text:]
...the efficacy of astringents in retaining them
of calculi, is great. I have seen a great number
of calculi, in which the astringent has
produced happy effect -
...the efficacy of astringents in retaining them
of calculi, is great. I have seen a great number
of calculi, in which the astringent has
produced happy effect -
...the efficacy of astringents in retaining them
of calculi, is great. I have seen a great number
of calculi, in which the astringent has
produced happy effect -

Barton - December 4th 1869 Monday

I proceed in order to speak of particular astringent -
 I intend to mention some of Dr Cullen's mineral as-
 -tringents - I shall treat of them under the heading of -
 I shall speak of vegetable astringents - Nature has
 been very ~~liberal~~ ^{liberal} in distributing the astringent
 principle - the quality of all the bark, is generally
 astringent - it abounds in plants which are greatly
 mucilaginous - I confess myself at a loss how to
 speak of vegetable astringents - Dr Cullen treats
 of them in their natural order - I cannot follow
 Dr Cullen in this respect - We should begin with the
 stronger and descend to the weaker or begin with
 the weaker and ascend to the stronger - Cullen goes
 according to Botanical affinity - therefore the
 weak medicines are combined with the stronger -
 the barks of some species of oak are very astringent -
 their use is known in tanning - decoctions of bark
 are employed in tumefactions of the fauces; to this
 decoction alum is sometimes joined - Dr Cullen
 used the English bark in powder - he gave ʒij in
 the interval of the paroxysms of an intermittent -
acorns have been used as astringents -
 a funny word -

In cases of gangrene I have used decoctions of barks (the common oak) which answered as well as Peruv cort. — I have also used it in form of pulv.

* The Spanish oak comes nearest to the English in its good qualities — The oak used in dyeing is not as good a medicine as the others — Chestnut oak bark has been used in fevers and has been found little inferior to Peruv. cort. —

In Brunswick, Germany, the powder of acorns has been used in Erysipelas — it may produce some good effects, provided it excites perspiration —

White Oak is nearest to the English oak in its effects of all the oaks we have * compare this with the above —

= Of Galls —

There are peculiar excrescences of oaks — I think it necessary to give you its natural history — every gall is actually the domicile of a particular insect — the gall is produced by a short fly worm of a transparent colour — it has four wings — In July it punctures the leaf of the oak

The case of Langens & one was decided by
Lord (the common law) which answered the
in former case. I have also cited in my opinion
the thousand & one cases nearest to the English law
and quod - The law is in quod is not
good a measure as the other - Quod is not
has been used in former cases and has been found to be
inferior to former law.

In Langens & one, the thousand & one
been used in quod - it may be found in some
good effect, thousand & one cases, thousand & one
White. thousand & one is nearest to the English law
effect of all the cases in case.

= cf. P. 111

There are thousand & one cases in quod & one
it is necessary to give thousand & one cases in quod & one
every case is thousand & one cases in quod & one
infect - the thousand & one cases in quod & one
of a thousand & one cases in quod & one
in thousand & one cases in quod & one

Either water or spirit of wine takes up the ex-
 -tract of galls - this extract is one of the most pow-
 -erful astringents we know of - it has been recom-
 -mended in many diseases - it was formerly
 used in Febris Intermittens, - they were preferred to
 the Barks, because they operated in a less quantity -
 They were said not to increase the heat of the system
 and were much cheaper than the Cortex Peruv -
 some have supposed they would lay the foundation
 of obstructions of the viscera - I do not believe this
 notion - Galls have been recommended in
 the cure of diseases, among which is Flatus -
 in this disease they have been used by giving Pulv.
 Gallæ & per Aqua dist ²/₃ vii ℥ - this, we are told,
 does not occasion costiveness, tho' it sometimes purges -
Decoctum of Galls have been found useful in
 affections of the loins - In Scotland they use the
 pulv - gallæ with adeps. suillæ, in cases of Piles or
Hæmorrhoids, - I have used equal parts of the
 ingredients with great success in this disease - but
 I think it is necessary to mention for your in-
 -formation, the different species of Piles - one
 species depends on a relaxed state of the system -
 this belongs to the decline of life - here the Pulv gallæ

the water in spirit of wine taken up the
-tract of gold - the extract is one of the most pure
-of the substance we know of - it has been recom-
-mended in many cases - it was formerly
used in Chloroform - they were prepared
the salt, because they operated in a less
They were also used to increase the heat of the system
and were much cheaper than the other
I now have discovered they would be the same
of abstraction of the vessels - do not believe
motion - of gold have been recommended in
the cure of diseases, among which is Chloroform
in the disease they have been used for many years
of gold & you agree that it is - the same
this was necessary to the system, it is necessary
destruction of gold have been found useful
operation of the brain - the Chloroform they are
pure - gold with Chloroform, in cases of
I have used equal parts of the
sufficient with great success in the case -
I think it is necessary to mention for you
-formation. The difference between the
species depends on a certain state of the system
the change to the disease of life - now the

To the mixture I add 2 spoonfuls of brandy

is ~~very~~ beneficial and often successful — but when the disease depends on febrile action, galls do harm — this is an important direction — the disease of recent piles does not require the use of astringents — here bleeding, purging &c is necessary —

The Hemorrhoids accompany Malignant Fever I saw 30 persons afflicted with this disease in connection with Febris Maligna, who had not been affected with piles before — here very little advantage would be derived from astringents — Dr. Schuëdius recommends galls in venereal complaints — in debility of the urethra, decoctions of galls are found useful — of this I shall speak more fully hereafter — you will find galls useful in some diarrhoeas — I have used them in this disease in the Penn^a Hospital — the formula is as follows — a pint of water is poured on $\frac{3}{4}$ lb of Pulv Galla — this to be stirred and strained — the patient is to take a table spoonful 3 or 4 times a day — he must also take Laudanum — A Physician in England applied Pulv Galla to muscle without producing any effect — when he dermated it, life was destroyed —

D^r Bicker used in Leucorrhoea

R^x Pulv. g. Kino Zi

aq. Calcis - pint i

Mist. Injunctis -

Kino in Gelris Tinct -

R^x Pulv. Kino ꝑs XLVIII.

— opii — gr. ij

— Columbo

— Gentian ꝑs LXij - M. f. Pulveres ~~ff~~ 9

2 grs of the powder of galls when taken into the stomach, have very bad effects - Galls in wine have been used successfully in diarrhoea -

Of Kino

This Gum improperly so called, is an important astringent - we are not perfectly acquainted with its Botanical History - one species grows at Georgia - the greatest part of it is brought from the West Indies - the effects of kino and its chemical qualities show it to be very astringent - it is perfectly soluble in the mouth - water and opt vini dissolve it - its colour is given out to these menstrua - The Tinct kino strikes a black colour with Solution Sulphas Ferri - it is very different from Sarg. Toracis - the dose for an adult is $\mathfrak{z}\text{i}$ in 24 hours - 4 grs for a child - kino has been recommended in different diseases - Dr. Sutherland has used it with success in Febris Intermittens - sometimes bark succeeds after kino has failed - He & used $\mathfrak{z}\text{ij}$ kino in try opt vini digested for a few days - I used it in intermittents for the first time in 1804 - I have combined it with Pulv. Gentian and Columbo - Kino 40 grs opium gr 4 - Columbo 62 grs - divided into 4 doses -

Uterus in Gonorrhoea —

R^x Pulv. Kino $\mathfrak{z}\text{ij}$ Mucil. G. arabici $\mathfrak{z}\text{i}$ — Pulv. opii $\mathfrak{d}\text{ij}$ — Aquae $\mathfrak{z}\text{x}$
 M^{ft}. Inj^{ectio} —

Uterus in Gonorrhoea

R^x. Gum. Kino $\mathfrak{z}\text{ij}$

Spt. Vini & spirits —

macerate for 14 day and strain —

Uterus in Pyrosis

R^x Pulv. Kino \mathfrak{ss} Pulv. opii \mathfrak{ss} Muc. G. arabici q^d to make
 pills \mathfrak{ij} —

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Dr Cullen speaks well of Thuris - In cases of Fluor
Albus it has been used with advantage - The
Edinburgh College have joined it with alum -
I never tried it in Fluor albus - Some have used
it in this disease, dissolved in Aqua Calcis - injected
a similar prescription has been used in the Penn^a
Hospital - Thuris has been used with success in cases
of Gonorrhoea - Thuris ℞ij Muc. G. arab. ℥ij Aqua
℥x - Apia ℥ij - used as an injection - Bell -
I have used Thuris in this way - and also without
Gum. Arabic - sometimes I combine Thuris with
Sulph. Zinc - one objection to Thuris as an injection
is that it colours the linen and the disease of the
patient is thereby discovered - In Diabetes, Thuris
has been used successfully - Its success in many
diseases makes me believe it might be good in
Diabetes. In Pyrosis, Thuris is recommended by
Dr. Pemberton - Thuris ℞x Chia ℥ss Muc. G. arab
to make 2 pills - I have thus succeeded -

Senna Japonica is more astringent and
brittle than *Rhus* —

Infusio p. Catechu
℞ Catechu Zij. Cinnam. Zij
℥ss. Vin. quart. i — macerate —

December 5th 1809 Tuesday

I come next to speak of Terra Japonica,
 This has been improperly called an earth, it is
 a juice - Succus Japonicus, a species of Mimosa -
 This is of a dark red colour has a bitterish, as-
 tringent taste - composed of gums in a great mea-
 - sure - the chief part of it is soluble in water -
 the residuum is taken up by Opt. vini - it is
 seldom employed in the practice of our country -
 It is used in Europe as an astringent in diarrhoea,
dysenteries, Fluxus albus, profuse menses, &c -
 I have not used our medicine in these diseases -
 It is used as an astringent in combination with
 other astringent medicine, - This astringent is said
 to be good in ulcers, - old writers have recommended
 astringents in wounds - these medicines they called
Vulneraries, - there are cases where astringents are
 entitled to the name of vulneraries - Barks is
 good in old, stubborn ulcers, in old buboes - it
 operates by stimulating the parts into action, by
 which good pus is produced; in many wounds
 to which astringents are applied with advantage,
 the substance is as it were dead matter - they
 act by stimulating the parts - The Terra Japonica
 is mentioned in the Dispensatory -

Botany Bay Yellow Resin
 has been lately used —

Logwood is used in Diarrhoea — it is
 a good medicine —

Uva Ursi - This is the Arbutus, uva-ursi of Linnæus. The English call it Bear-berry - it is found in New-York, New-Jersey & it is an ever green herb and a trailing plant - it grows within 15 miles of this city - Some physicians are more blanks!!!!

The uva ursi is properly arranged with astringents - this medicine produces stypticity on the tongue - increases the saliva - here they approach the Rhin - more bitterness exists in the leaves of the uva ursi than in the bark - The R^o of Uva Ursi strikes a black colour with Sulph. Ferri - the leaves contain a greater quantity of gum than resin - therefore it is extracted best by water - it produces no great effect on the pulse - we should think it merits attention - it is certainly a stimulant in a certain degree - it may be found useful in most cases in which astringents have generally good effects - it is good in Intermittents - In the Intermittents of delicate people, it has been used with success - I should expect advantage from Uva Ursi in doses of ʒ or 10 gr in powder 3 times a day in cases of Dyspepsia - I know it is good in increasing the power of the stomach - it has been used with success in Fluxus albus -

Murray speaks of the Uva Ursi from its good ef-
 fects in old gonorrhoea - I think if persisted in
 it will be found good in Glen albus - I have
 used it in Gonorrhoea of very long standing - the
 patient used the decoction and chewed the leaves -
 I recommend it to you in Gonorrhoea - where
 injections cannot be used on account of irritability -
 Bayl^r Bell speaks of uva ursi as the most ef-
 fectual in gonorrhoea - no advantage is derived
 from this medicine when the prostate gland is
 affected - It to Zi is the dose 3 or 4 times in die -
 This medicine has been employed by Physicians in
 Pennsylvania with great advantage - it is not
 adapted to recent states of gonorrhoea - I think
 decoction of Uva Ursi might be used with advantage
 in affection of the urethra and bladder - it may
 be injected with safety - it may be used internally
 in doses of ℥ss three or 4 times a day - Ziij may
 be taken, but nausea is produced - of late this
 medicine has been used as a remedy in Phthisis
Pulmonalis - I do not think it can be good in
 this disease except in the sweating stage -
 Some of the most important properties of this article
 remain to be mentioned - I mean its effects in

Nephritis, Calculus &c - there is no point at which I have made up my mind more than that this medicine is a powerful Antilithic - one good effect of it is to relieve strangury from Epispastics - this was first mentioned by my pupil D^r Ellitchell - he used uva ursi in decoction a while after the application of blisters, and no strangury followed - other remedies are found for strangury from blisters - the decoction of uva ursi is to be given at the time the Epispastic is applied and no strangury follows -

Mistletoe

I have never used this medicine - the mistletoe is never found on the earth - it is attached to trees - as apple, oak &c - it is never found on dead trees - the mistletoe is exactly the same in its properties from whatever tree it be taken - it is formed by the living principle of the plant - I have shown you that plants do absorb - the mistletoe is a powerful astringent - its virtues reside chiefly in the bark - it is best employed in substance according to Platter and I think he is correct - the mistletoe possesses ~~the~~ bitterness - hence perhaps it would be better ~~clap~~ with tonics - it is recommended by Colbach in

of the Colony, Colony &c - these are not to be
I have made my mind more than that the
there is a powerful but little - one of the
of it to release the Colony from the Colony
was first mentioned by my friend of the Colony
he was not in the Colony at the Colony at the Colony
application of the Colony at the Colony at the Colony
other members are found for the Colony at the Colony
the Colony at the Colony at the Colony at the Colony
the Colony at the Colony at the Colony at the Colony

of the Colony at the Colony at the Colony at the Colony
I have not in the Colony at the Colony at the Colony
is not in the Colony at the Colony at the Colony
an app of the Colony at the Colony at the Colony
the Colony at the Colony at the Colony at the Colony
from not in the Colony at the Colony at the Colony
the Colony at the Colony at the Colony at the Colony
that not in the Colony at the Colony at the Colony
at not in the Colony at the Colony at the Colony
and I think is a not in the Colony at the Colony
the Colony at the Colony at the Colony at the Colony
with not in the Colony at the Colony at the Colony

convulsions, chorea sancti viti - he says it often
fail - this medicine is certainly good in some cases of
Epilepsy - Dr. Wm. employed it with success in one
case of Epilepsy - I have heard it employed in this
disease with advantage, but I have never tried it

December 4th 1809 Thursday

I will mention some of the indigenous plants
of our country - the first I shall name is a
valuable species of Granum the
Granum maculatum - the root of this is very
astringent - it has been used with benefit in
Cholera Infantum - it was used in this disease,
by Dr. Wm. of Lancaster, boiled in milk &
drank very freely - I have followed this practice -
I think astringents, in this disease, have been too much
neglected - I say nothing of the styptic virtues of this
plant, for myself - it has been useful in external
and internal hemorrhages -

Urechis americana, american varicle or
alum root - is most intensely astringent - it
promises to be useful in practice - it has

Robanche Virginiana

of our country - the first of these names is a
valuable species of Physalis.
Physalis Maccabaei - the name of the variety
is not known - it has been used with benefit in
Chloris Physalis - it is used in the same
by Dr. Hahn of Amsterdam, called in Dutch
"rank very high" - I have followed the practice
of Dr. Hahn in the use of the plant, and have
reflected - I am not sure of the effects of the
plant for myself - it has been useful in
and internal hemorrhages -
Physalis Maccabaei - another name is
given to it - is most internally beneficial - it
is known to be useful in hemorrhages - it has

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acquired some celebrity for its good effects in
Cancers - I do not think it has done much in
genuine cancers - it has probably been of service
in ulcers, oris, which were taken for cancer -
The Virginia broom rail, indigenous to this
country, has acquired some celebrity as a medicine -
it has been called cancer root - it is common
in Penns. & it grows under the beech tree,
and is never found under any other tree -
its sensible qualities are considerable - it has
no leaves - it has a very astringent, and a
taste that is nauseously bitter - Dr. Rush made
it probable some time ago, that the famous
cancer powder of the late Dr. Martin contained
arsenic, and some astringent vegetable - Martin
told me it did contain a vegetable which, he said
grew in Pittsburgh - this plant grows here and it
is probable this was the very one which entered his
powder - I wish you to attend to this plant -
in old ulcers, supposed to be cancerous, some
astringents have been found useful - Dr. Benson of
German town, on the authority of another used an
astringent medicine, ^{with arsenic} in cancer with success -

The Tormentilla Erecta not a native of this country - this bears considerable resemblance to Cinque-foil - it deserves to be ranked high in the vegetable medicines - it has been used as a substitute for Peru. cort. it has been combined with gentian and thus used in Intermittents - it has been recommended in cases of Abortion - This disease seems to depend on a relaxation of the system and particularly of the uterus - here astringents are good and the tormentil may be used with success -

Cortex Granatorum is a good astringent - my experience of its virtues are very small - for further information on this vegetable, I refer you to books on Mat. Med. - of Aerb-Plants or Fruits - See Persimmon

European slue and some American species - I am now to speak of an article entitled to your attention as a medicine and as colouring matter - I mean - Rubia Tinctorum a Madder - this is a memorable plant in the history of Physiology - I do not think much of it as an astringent, but as an Emmenagogue, it is very important -

The Government of the District of Columbia

Madder tinges the bones of man and all animals except the amphibious, of a red colour - This is durable - if we discontinue the use of madder for a long time, the colour in the bones will disappear, probably owing to absorption - this taking up of the coloring matter is considered as a subject of Chemical affinity - in a state of solution of the blood, there is a deposition of Phosph. Calci in the serum - this acts as a mordant - the mordant combines with the coloring matter of the madder, and forms a beautiful pigment - if to a solution of madder be added Mur. Calci - no change is produced - but add to this Phos. Soda and the effect will be evident - this is owing to the muriatic acid having a greater affinity for Soda than for the lime, it quits the lime and unites with the soda, forming Mur. soda - while the Phosph. acid of the Phos. Soda uniting with the lime forms the Phos. Calci which is a good mordant for the dye of the madder and unites with it, forming a pigment - in old animals the Phos. Calci exists in the bones not in the serum - therefore madder provides no change of colour - the bones of a foetus in utero have been coloured with Madder

The Black trip to the South and Alabama
 except the Black, of a red color. This
 is desirable - if we discontinue the use of Black
 for a long time, the color will be Black
 - Black probably owing to Black - the Black
 up of the Black matter is Black as Black
 of Black appears - in a state of Black
 the Black there is a Black of Black
 in the Black - the Black is a Black - the
 most Black combine with the Black matter
 of the Black, and form a Black Black
 of the Black of Black be Black Black
 no change is Black - but Black Black
 can be Black with the Black - the Black to
 the Black and Black Black for
Black for the Black, it gives the Black and Black
 not to Black Black Black Black
Black of the Black Black with the Black Black
Black Black Black Black Black Black

Super Sulph. Alumen. et Potas -

The Black Black Black Black Black Black
Black Black Black Black Black Black
Black Black Black Black Black Black

as the structure and composition of the enamel of the teeth, is different from that of the bones, this may be one reason why madder does not affect them — madder colours milk, as in the cow — the cartilage receive the coloring matter of madder — If madder were applied to the whole surface of the skin, this would be the best manner by which to determine on the fact of cuticular absorption — Dr. Eolhouse experiments on this point, in a small way — Dr. Murray made some very interesting experiments with the madder bath —

madder is not an inert medicine —

It is found to render animals dispirited, & sluggish — it has been recommended in rickets —

in the jaundice it has been recommended — but I do not think it likely to be of service in this disease —

I have now done with the vegetable astringents —

under the head of Mineral astringents — I shall

here notice — Alum and Sacch. Saturni —

The first, Alum is a ~~neutral~~ ^{Super} salt — Sulph-

Aluminis — ^{et Potass.} it is diffused thro' every part of the

world — it abounds in Penna. Maryland and

Virginia — it was formerly supposed to exist in

all the Mineral waters — Alum is a powerful

* what, it!

℞ Pulv. Canella alba. Pulv. Sulph. aluminosa p. viij. Pulv. C. Peruv. Zi
 Mft pulv. 4 lines, in diē. for Fiebr. Intermitten -

astringent - it has been used in some places, as
 to process of tanning - Dr Mac Bride recommended
 it for this purpose - it has been used as an
 astringent internally - its astringent powers
 are known to girls in Europe and I dare say
 in America - the success of astringents in Febri
Intermittens, led physicians to the use of Alum
~~Lead~~ has been used in combination with Alum -
 also with nutmeg - Dr Lind recommended this -
 Dr Adam used Alum with Canella alba
 in Intermittents with success - Alum 7½ grs -
 Canella alba 7½ grs - ^{Hemorrhage, 3rd} 4 times a day -
 I have used Alum in Intermittents, before
 the coming on of a paroxysm, combined with Co-
 lumbo - Alum has been likewise used in small
 doses, in Cholera and Diarrhoea - In Cholera
Infantum of this city, small doses of Alum, - with
Sandarium at intervals, has been useful; this
 is the case when it depends on debility - Alum has
 been used successfully in

Hemorrhages - Dr Cullen says he has not found
 it good in hemoptysis - he says astringents in the
 last disease are not always proper -

For
R Cullen used in Menorrhagia

R Pulv. alumin. Zi Mft. dos. X
Gallar Zi
add lactoam. if R purg -

X this is a compound of Rins, alum. V. V.
Pulv. Stypticus

R alum. Zi
Sang. Lacini on Rins Zi. R.

In Menorrhagia

R Pulv. aluminis Zi Pulv. gallic Zi rub. m. d. d. d.
divides into dos. xij -

I have used Saccharum saturni in this disease - but astringents generally are likely to do harm. In internal hemorrhages, Alum is good - Helvetius used Alum fused with Sang. Draconis and this mixture acquired some reputation - This mixture, it is said, is not soluble in all stomachs - I think the Sang. Draconis prevented the action of the alum - the powder of Helvetius, was called Pulvis Stypticus - the Edinburgh College still retain it - Alum is good in menorrhagia - it must be used in small doses, as it is liable to irritate the stomach - we may begin with grv and ascend gradually to ℥i - In our climate, alum must be given in small doses - it is best prepared by rubbing it down with mucilage. In very large doses it sometimes purges -

December 8th Friday

Dr Thompson speaks favourably of the powder of Helvetius - he says it is good in the floodings of women - in Catamenia I think alum is not good - a low diet be - should be attended to - in cases of menorrhagia, I have used alum in combination with Galls - Pulv. aluminis ℥i Pulv. gallarum ℥ss ~~℥ss~~ rubbed down with sugar and divided into 12 doses - this produces very good effects -

Dr. Fowler has spoken of the good effects of Alum in Scorbutic complaints — I think alum is good in scorbutic gums — Dr. Thompson says he has used the Helvetican powder in Fluor Albus — Dr. Cullen says he has never succeeded with it — I have often used alum combined with columbo or bark in that state of Fluor albus, depending on debility, where there is little fever and the discharge not increased by a generous diet — ^{what} I have said, you may well suppose that Alum is adapted to some cases of Gonorrhoea — I have used as an injection, Pulv. Aluminis ꝑss X Aqua Rosarum ℥viij vel X ℥ — a better injection may be made with alum in combination with Oak bark or Powder of galls —

Pulv. Galls or Oak bark ℥i
 aqua fortis } ℥xx
 vel Aqua Rosar. }

Pulv. Aluminis ℥ij ꝑss ℥ f. injectio —

On the authority of Dr. Richard Mead alum has been used in Diabetes — if my ideas of this disease are correct, it may be used in the latter stage, as it now chiefly depends on Debility. It acts here by virtue of its tonic and astringent power. I am induced to believe that some cases of Diabetes, depend on circumstances, which may admit of cure by the use of Alum — it is certainly well adapted to some

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20 *Ophthalma*
 20 *Ophthalma*
 20 *Ophthalma*
 20 *Ophthalma*

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cases of Diabetes — Dr. Darwin thought this disease depended on debility of the absorbents, and that alum was good, by its action on these vessels — I think it acts, in cases of debility, only by its tonic power — I am now to speak of Alum as it is used externally — The external use of this article has been more common than the internal use of it — it is often employed as a Gargle — Dr. Cullen says he found it useful in Cynanche Trachealis — Alum has been used as a gargle in different sore throats — the external use of Alum in Hemorrhages has been great, but it is now less generally employed — Alum has been used in inflammatory affections of the eyes —

Ophthalmia membranacea; in this disease Alum is useful as a wash — $\text{alum gr. iij Aqua ℥i}$ — The preparations of alum used in practice, its doses, and modus operandi are now to be considered — Of the preparations of Alum, there are a great number — One of them is called Coagulum Aluminis — This is made by agitating the white of an egg, with a small piece of alum — This is used in affections of the eyes — it is best in chronic cases and in the decline of life — it is used by dipping a feather or something

Alum Whey

Rx Case Milk 1 pint - Alum ʒij
Boil - Separate the curd and make it
begin agreeable with aromatics &c -

Armenian Bole is an astirgant
and was formerly used in practice

of the kind into the mixture (which is a kind of Linctus) and touching the eyes with it — I have employed it with success — Alum coagulates milk, serum, and other fluids — we have the Serum Aluminosum, made by boiling ʒiij Alum in one pint of Laud's milk — the whey is made to taste nicer by the addition of a little sugar

The dose of alum for adults is from ʒ to 20 gr. — it is best to begin always with small doses — large doses excite vomiting, purging &c. it is said to occasionally when used largely, to bring on constriction of the intestines — in hemorrhage it acts partly by its astringent power — Morbo says it acts sedatively, by allaying the heat of the system — the effect of alum on the pulse have not been great — it sometime, raises the pulse —

Plumbum or Lead

This is an important article in medicine — it is indispensable to physicians — Cullen places it under the head of Astringents — it might be better to know it among the class of Tonics — but, I will now speak of it, as

the last article of Astringents — I shall speak, 1st of its preparations — 2^d Its operation in inducing disease — 3^d Its effect in curing disease — Lead is universally distributed over the world — it is very abundant in the U.S. according to Newton it melts at 560° Fahr. but Miraboun says it requires 594° to melt it — by a sufficient degree of heat, this metal is made to evaporate — this evaporised lead in some parts of the world, proves useful in vegetation by destroying various insects — Lead is easily calcined — when brought by fire to the state of Calx, it is called burnt lead — when the heat is carried ^{higher} it is called Red lead — this contains a great quantity of Oxygen — heat increased forms it into a state of Glap — Litharge is made by oxidating Lead and melting the oxide directly — none of the leads prepared by heat, are used as medicines — The white, ^{oxide} of Lead is a Carbonate of lead — it is made by exposing lead to the vapour of acetic acid or vinegar — a powder forms on the lead which is scraped off — this is the white lead —

General Extract of Lead

Bar 4 lbs of litharge in
the same quantity of dist vinegar

Acetate of Lead or sugar of lead usually appears in the form of small needles - it is made by dissolving lead in distilled vinegar - it is to the taste, sweetish and hence one of its names - it is even agreeable to many persons - it has also an astringent taste - it increases the flow of saliva - the celebrated Extract of Lead, of Goulard, is made by boiling 4 pounds of litharge in the same quantity of distilled vinegar -

As the Effects of Lead on the System -

One of its most dreadful effects is the production of colic of different kinds, as the Colica Pictonum, the Colic of Pottery, Printers, Miners, &c -

It is necessary that I should say ~~say~~ something of this disease, though you will hear more of it from the Professor of the practice of medicine - lead often produces palsy of the limbs as well as colic - I doubt whether lead be the sole cause of this disease - it is asserted that some wines, that were adulterated with lead, did not contain but $\frac{1}{2}$ grain in every gallon - I do not believe it -

The Colica Pictonum is not always brought on by drinking liquors which contain lead - this disease is very common in our city, to painters.

Colica pictorum is most frequently brought on by the vapours of ^{lead} — potters are subject to this disease, owing to the lead which they use in glazing their ware — printers are subject to this disease from their being obliged sometimes to work with heated types — they sometimes have pains of a rheumatic kind in their wrists — I have seen such cases — workers in Lead mines are subject to Colic — Lead does not produce Colica Pictorum until it has been used a good while — I have known doors painted with white lead, to produce head-ache

The Cure of the disease depends chiefly on evacuating the bowels — bleeding is not often necessary — I have seen a case in which the blood was sizzy — Crystals of Tartar and Alum. Sicini have been highly recommended in this disease — the latter medicine is an excellent remedy — very large doses of Calomel are good — Opium should be given after the bowels are opened — Opium acts often as a powerful Cathartic. I have found Cold water when dashed on the legs, to produce cathartic effects, when other remedies had failed — I have used Gum Guaiacum with advantage in this disease — a salivation with mercury is often necessary in this disease —

Another disease equally deplorable with the last mentioned is sometimes produced by lead — I mean, Gutta Serena —

The effect of lead is not always to produce Colic, or Paralysis — it frequently does no more than bring on Rheumatism — I have often wondered how lead produced this affection —

It is customary with the workers in lead mines to eat a quantity of hog's lard, before going to work in the morning and thus the lead exerts no deleterious effects upon them — It is very common at present in this city, with printers, to eat fat broth, or sweet oil with their dinner, in order to prevent any bad consequences from the Lead — does it not seem probable that the Colic of miners is produced by the Lead entering their stomach and not by its external action —

The Malic Acid when taken alone often produces the same effects that result from mixing it with Lead — Cider produces pains in many, and shifts the seat of gout — effects similar to these are often produced by lead — Lead to some persons is not deleterious — the proportion of potters and painters affected with Colic is not more than 1 to 40 or 50 — I have known 20 lbs of lead to be taken without injury —

In recent Quercus

Re acet Plumbi gr ij sulphuric gr vi - aqua 3x M. ft. Tinctio -

In old Quercus

Re acet Plumbi 2i - aqua Rosarum 3viij

The smelters of ^{lead} lead in England are said to roast their meat, cheese &c. on leaden pigs, which gives their aliment a sweet taste; Sacch; Saturni taken to be quantity of $\frac{3}{4}$ or $\frac{1}{2}$ does not produce deleterious effects — but the same quantity taken in small doses, is very injurious; in large doses, lead purges, vomits &c. —

December 11th 1809 Monday

Goulard's Extract is hurtful in Corysipelas that tends to Gangrene — all external inflammation which is suddenly repelled by the use of Lead, is apt to occasion internal disease as colic — Lead is often used in Burns — Mercury and Lead combined have cured scrophulous ulcers — in the scrophula of young people this may be useful — but in old persons — Lead is used in the form of injections in Gonorrhoea — it may be used here with advantage — authors differ as to the proportions of lead — I seldom use more than $\frac{1}{2}$ gr to $\frac{1}{2}$ gr — recent cases I use Sacch Sat $\frac{3}{4}$ sulph. $\frac{1}{2}$ gr $\frac{1}{2}$ gr $\frac{1}{2}$ gr — much stronger injections are advised and are sometimes necessary — this is when the disease is chronic — here I use Sacch Sat to $\frac{1}{2}$ gr — Rosae $\frac{1}{2}$ gr $\frac{1}{2}$ gr is sometimes used — we cannot prepare as good injections with common water as with those that are medicated as Rose water and some others —

It's a many articles in his belly! This is funny to them
which ^{are} many have been written
of the University.

+ lead fails of cure because we
cannot continue it long enough
to do good —

The Aqua Letitay, is often used as an injection in Gonorrhoea
 by using two strong injectors, Hernia Humoralis or a
 swelling of the Intestines is induced — we may expect
 this when the discharge is suddenly stopped —
 The Sugar of Lead internally has been used in Fluor albus,
 I will now speak of internal diseases in which Lead
 has been used — The Tonic powers of Lead would appear
 permit its use in Intermittents — I have known Lead in
 small doses to prevent the paroxysms of fever, —
 Sacch. Saturni has been employed in Epilepsy —
 especially that of young persons — I have perceived that
 Lead did some good in a case of Epilepsy in the Penn. Hospital —
 but this case was afterwards perfectly cured by the use
 of Stramonium — in Portugal, Sacch. Saturni has
 been used with success — ~~this~~ I have ^{never} used it myself — it
 has been used in London — I have succeeded with Saltpetre —
 Jno. Hunter recommends Lead in Tetanus — Saccharum
Saturni has been recommended in Mania, Hypocor-
driasis & I have not employed it in these cases —
Lead with Camphor is used in Mania — Lead is
 used in Cholera Infantum with success — I have
 found it successful in my practice — Lead is also
 employed in Diarrhoea — I have not tried it much in
 this disease — Sacch. Saturni is used with advantage
 in Diarrhoea with latent fever in the Intestines —
Sacch. Saturni has been employed in Diarrhoeas
 in the decline of Intermittents — I have used it —
Sacch. Saturni has been used in Pulmonary Consumption,
 with small doses of Opium —

The internal Hemorrhages -

R^x sacch. saturni ℥i. Gum. Rosarum ℥i. Laudanum ℥iij-
 in ft. pill i - to be taken in the day -

Uterine Hemorrhages

R^x - sacch. sat ℥i. Ro. Thebaic ℥iij - in ft. pill i -

The Hemoptysis

R^x sacch. sat. ℥ij - Pul. g. arabic ℥ij - in ft. dos. vi - one every Hour
 in molasses -

I have never known Lead to be employed in Dysentery -
 I think it might be used in this disease with success -
 of the use of Lead in Hemorrhage of Red Blood -
 the use of Lead in Hemorrhage is not a new practice -
 Dr. Heberden says that Lead is entitled to the name of
 a specific in Hemorrhage internally -
Punctura Saturnina has been used with Laudanum in
uterine Hemorrhage with success - In internal hem-
 orrhage, Dr. Reynolds used Sacch. Saturni gr i - Cos-
Rosan - gr ii - Laudanum qtt ij made into a pill - this
 to be taken in the day - this was used in a man who had
 spitting of blood - the medicine did not produce pain
 in the bowels - he was cured - a lady with hemorrhage
 from the uterus, used Sacch. Sat gr i R. Thebaic gr ij made
 into a pill - this was given with success - I believe there
 is lead internally to be less dangerous than imagined - it is
 certainly a good medicine - I have never in my practice
 seen any disadvantage arising from the use of Lead in cases
 to which it was adapted - I have used it in cases when
 violent Hemorrhage followed Dysentery - the Lead com-
 pletely cured it - in another case, hemorrhage su-
 pervened in Phthisis - patient lost 1 gallon of blood
 at least by the anus - Lead greatly relieved him -
 In another case, the patient had Hemoptysis - 4 pints
 of blood were discharged by the lungs - a large blister
 was applied to the bowels - I gave Sacch. Saturni ij
 rubbed down with Quin. Arabi ʒi divided into Dos. vi -
 one to be taken every hour in molasses - the bleeding
 ceased and he got well - in Epistaxis or bleeding from
 the nose, Lead has been used; a negro man with

In Epistola -

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Re sacch. saturni gr viij - Olib. g. anis gr i -

Neurostige from anus

Re. sacch. saturni gr viij - Olib. g. anis gr i - Olib. Precacuanha gr i -
rub down into sack alb. Zij - R. ft. dos. 11

Opistaxis, I gave Acet Sat p viij aprim p i - rubbed
 bucket full - by the use of so small a quantity of lead,
 his bleeding was entirely stopped, so sudden the action of
 lead - in the autumn of 1805 I was called to see a
 patient with a violent fever - his pulse when I saw
 him was sinking fast - I did not know the cause
 of his weak pulse - I was told by a servant girl that
 he had passed by the anus 100 $\frac{1}{2}$ of blood at least -
 I immediately gave him lead with Specacuanha -
Ac Sat - Saturni' gr viij aprim p i - Specacuanha p iij -
 rubbed down with saech. alb. - divided into 4 doses -
 in 14 hours he was much relieved - the hemorrhage
 was checked - he did not take more than px -
Specacuanha is very useful - it is one of the best
 anti-hemorrhagic remedies - In uterine hemorrhage,
lead is excellent - it is better than bleeding in most cases -
 I called to see a lady who had been flooding 14 days -
 she had a flush in her face when I saw her -
 I wished to draw some blood, but she refused it -
 I then gave Acet Saturni' gr iij with aprim - the hem-
 orrhage was quite stopped - it reduced also the flush of
 the face and her irritated pulse - I consider hem-
 orrhage as active and passive - may not suppose
 of lead be used in Abortion with advantage - I think
 it may - when the hemorrhage is great, lead is the best
 remedy - In 1802 I was called to see a pregnant
 woman - she had great floodings - was sensible - but
 on the eve of convulsions - I gave Acet Saturni p iij
 in 5 minutes by the watch, she was greatly relieved - another
 small dose completely stopped the hemorrhage -

December 12th 1869 Tuesday

Mrs T. had her catamenia at 12 years of age — she married very early — had her catamenia very regular for a long time — in her first lying in, she was mismanaged — after this she had her monthly discharges in a very irregular manner — she submitted to a low diet — she was very much reduced — I prescribed vinum Chalybeatum without any good effects — I then gave her raccha oratum with Opium — this had the desired effect — her profluvium was arrested — in time by habit the lead lost its power — I tried the effect of Opium — I afterwards gave lead with Specac. — I consider uterine Hemorrhages as dependant ^{often} on great arterial excitement — in these iron is always hurtful, lead is the best remedy —

Modus Operandi of Lead — It does not act by its tonic power — if this were the case we might expect to derive good effects from iron — Foxglove has been used without advantage — Specacanth is very beneficial — from the success which has attended the use of Lead in my practice, I recommended it to you as one of our most important medicines — particularly in hemorrhages from the Intestines, and Uterus — it acts powerfully even on parts that are remote — I have never found harm to result from the use of Lead — cold water or Ice has been used in uterine hemorrhage, but from actual experience I am persuaded Lead is far preferable — There are cases of Hemorrhage in which neither Lead nor Ice can do good — in these we must use mechanical means —

December 22nd 1840

Digitalis has been of some advantage ~~to~~ in hemoptysis &c where the hemorrhage is accompanied with arterial action —

Lead acts differently from what has ever been supposed —

- 1 The preparations of lead succeed better than purging, bleeding &c — to any extent, in some cases —
- 2 The lead cannot act by its sedative effects — for the *Digitalis* which lessens the pulse much more than lead is seldom successful in hemorrhages — in passive hemorrhages as the menorrhagia, hematuria &c whether in adult or children, the sugar of lead is the most important remedy — I have found it successful in menorrhagia when the patient had Typhus —

The operation of Lead and ~~Loggins~~ is very different — it has some property different from that of merely lessening the pulse — this must be derived in part from its astringent qualities — many as — tringents though stimulant have been found good in hemorrhages —

D. Thos. Smith's Experiments to prove the action of lead — the crural nerve of a frog was laid bare & a solution of common salt applied to it, which roused it into action — this solution was removed & a solution of sacch. Saturni applied which arrested the action — this being removed and the salt applied the action was renewed — although Lead is an astringent medicine — yet no theory respecting the astringent principle, warrants us in the belief that its operation in hemorrhage depends on its astringency —

1811

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I have supposed that all medicines acted as stimulants but lead seems to act as a sedative - I confess I am obliged to give up a part of my former opinion on this point - lead acts on the nerves through the medium of the stomach - and thus affects the stoppage of hemorrhage

I advise you to follow my directions in the use of Lead; use from 1 to 6 gr, in hemorrhages - combined with a little Opium - with respect to the dose of Lead, we must regulate it, according to the patient's constitution - the largest dose of Lead I ever used was 10 gr - with gr 1 Opium - I have heard of 30 gr being used in 36 hours - In arterial hemorrhages it exerts its good effects in small doses - 4 or 5 gr of Lead often do more good than drawing 50 z blood from the arm - I have now ended the subject of astringents

Of Tonics

D Cullen says they act by giving tone to the system & Dr Arrivi calls them sorbentia - I prefer the term Tonic - By Tonic I mean such medicines as give general strength to the system without increase of heat, and that whether applied externally or internally - Opium and Wine are called Incentivia - it is the character of tonic to give more permanent strength than the Incentivia do - heating medicines do not produce permanent effects, as wine &c - by Tonic, I do not mean, medicines which merely increase the strength of the system - when our stomachs are out of order, we find relief from Columbo &c - which are thus called Tonic - but sometimes the stomach is morbid and the appetite craving - whatever medicines bring the stomach to its natural state are Tonic, as Ometis &c -

+ also Stimulating astringents — as Serpentina

1 Astringent

2 Bitter

3 Bitter & astringent

4 Bitter aromatic & somewhat Stimulating

December 4th 1809 Thursday

I shall consider the Tonic medicines under three different heads - viz Astringent Tonics - Bitter Tonics - and these two in combination - It is the opinion of many that tonics act exclusively on the muscular system - this is the opinion of Dr Gregory - the tonics excite a strong effect on the heart and arteries - they therefore produce effects analogous to stimulants - they operate in some degree on the nervous system - with regard to these medicines and the astringents already spoken of, we are enabled to throw light on the systems of other animals besides man - the tonics exert a peculiar effect on vegetables as well as animals - solutions of lead, zinc &c produce a powerful effect on vegetables - as plants are not known to have ~~ner~~ nervous systems, it has been inferred, that the operation of tonics in animals is on their muscular fibres - who will say that plants have any thing analogous to muscles - Brown was the first who introduced into his lectures the subject of the operation of medicines on plants in connection with animals - the cellular membrane is extended widely in the human body, and appears to be the seat of that life which is called contractility - when this last is perfect, there is sound health - when diseased it gives rise to various affections as dropsy - the operation of medicines on this cellular membrane should be attended to; tonics give it strength and firmness -

I think it is probable that vegetables have nerves - there is no foundation that tonics act solely on the muscular fibres - they operate on animals without muscles - and in plants without nerves - they exert their effects on all active parts of the system - such as prop-
-sep irritability, sensibility &c - the cellular fabric is one of the media, through which tonics act on the system - I recommend to you the Practica Physica of Cullen -

There are bitters which do not possess any tonic power - some of the most powerful tonics possess little bitterness as Muriate of Barytes - Zinc, Copper, Peru-Bark - Galls have no bitterness; they often cure intermittents -

Riding, exercise &c are powerful tonics - cold baths are tonic in hot climates - a well regulated diet is the most permanent of all tonics - this varies with different people - with some a vegetable diet is tonic, with others an animal diet - regular evacuation of the system as discharges of feces, bile &c are tonic - certain affections and conditions of the mind are tonics - venereal appetite well regulated is tonic - fear, grief &c on many systems act as tonics - Had it not been for the ambition of Caesar, he would have fallen a victim to an Epilepsy to which he was subject - Anxiety & expectation to a certain degree is tonic - joy has arrested an intermittent fever - pain is tonic in some cases - it gives a man courage said Dr Priestly -

It has been asked whether the Tonic power of medicine is owing to astringency — this is not easily answered — there are many medicines both astringent and bitter which are not tonic — and vice versa — it is probable that the tonic principle like the astringent is composed of different substances — the tonic power is often obtained by mixing bitter and astringent — The Tonic power of Peruvian Bark is increased by being mixed with Camphor and Virginia snake root — All Tonics are stimulant — sometimes we cannot give the ^{tonic} astringent power to anything else but heat — as the warm bath — Dr. Cullen says medicines do not act as tonics in the cure of Intermittents — because they do not increase the pulse — I must observe that every tonic medicine has the power of stimulating the system — in many cases the operation of tonic is independent of astringency — many simple bitters do not act on the heart and arteries — It is not right to deny the stimulant effects of medicines, merely because their action is not evident on the pulse — the Uva Ursi is an example of this — the stimulus of Uva Ursi is as obvious as if it had the greatest effects on the pulse — different Gentians are bitter — the Yellow Gentian is one of the purest bitters we know of it is said to do harm by its heating quality — it is evidently stimulant — the stimulant power of different Barks is described by Dr. Walker, Ryder, Price and others — bitters are different in their power of stimulus —

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A great ^{proportion} ~~portion~~ of the articles of the Materia Medica appears to be Stimulantia or Tonicantia — that any medicine does act by a direct sedative power I can hardly believe — many physicians agree that Opium is a stimulant — I do not believe that medicines exert their effects exactly in proportion to their stimulating power — I do not know who first said that all medicines were Stimulant — I find it as late as 1706 — in Sylvester Duplapt's Dissertation — all the bitter tonics whether vegetable or mineral are Stimulants — they operate in part by a stimulating quality

December 15th 1809 Friday

TONICS

Nitrate of silver and acetate of lead precipitate the bitter principle — it is said the precipitation is not occasioned by the presence of Muriatic Acid — the bitterness of bodies is a peculiar indivisible principle — Dr Cullen says bitters are inodorous — I deny it — some of the strongest bitters are void of aromatic qualities — but bitterness and the aromatic principle are combined in many bitters, as Snake root — there are aromatic bitters — the bitters are employed externally and internally — I do not mean the pure bitter principle — I mean bitter tonic medicines — they have been recommended for cleaning and healing foul ulcers —

It has been said that litters generally contain something deleterious - the narcotic power of opium does not reside at the litter principle -

many of them are antiseptic and arrest fermentation - but those which are stimulant do harm in fermentation - Dr Cullen says an obvious property of bitters is, when taken into the stomach, they increase the appetite and digestion - this is certain in many cases - It is probable that Dyspepsia is owing to the gastric juice being secreted of a bad quality - & I am now thought the bitter medicine increased digestion by promoting the absorption of chyle - they do this indeed but I do not agree in this as a general rule - the bitters produce appetite by stimulating the stomach and the gastric juice - bitters were formerly recommended in visceral obstructions &c - In costiveness, bitters have done good - In sedentary persons, costiveness depends on a torpor of the alimentary canal - here bitters are useful - The bitters are stimulant and perhaps there is no stimulant that does not exert a diuretic effect - the bitter artichoke - lettuce root &c are diuretic - Opium is often diuretic - Bitters have been employed in Dropsy combined with alkaline salts - The bitter almond has prevented the paroxysm of fever - bitters are said to be good in continued fever - here the hot bitters are injurious - after bleeding has been used freely, bitters are useful - In the malignant fever of 1793 the bitter chamomile was very useful after bleeding, purging &c -

8. Febris Alva -

In some cases of Dyspepsia bitters have been used with success — a purgative quality belongs to almost all bitters — Dr Darwin says that bitters have been used successfully in Febris Alba, vulgarly called Chlorosis, especially when affected by low diet — of the anthelminthic properties of bitters, I shall speak towards the end of this course of lectures — bitters frequently used, destroy the tone of the stomach — Many bitters possess a noxious and narcotic quality — some are deleterious as opium &c. —

December 18th Monday

Tonic - Vegetable

Gentians — There are many species of Gentians — I shall confine myself to a few of them only — The Gentiana Lutea is the Gentian of the shops — this is a native of the old world and is never found in America — this species is the most important of all the bitters — Quapria can hardly be compared to it — it is not a nauseous medicine — spirit extracts more of its virtues than water — our vegetable is very antiseptic — many virtues have been ascribed to it — said to be good in debility of the stomach, nervous fever — said to dissolve tenacious phlegm — it does certainly create an appetite —

Elixir Stomachicum of Ropentier

℞ cortex aurant 3vi

Ext Gentian 3p

Vin. Opento ttiij

digest — done 3p several times a die —

Punctura Stomachica

℞ Cat O. cum 3tr

— Aurant

Rad Gentian 3ij

Vpt Vin Gallic ttiij

Mf digest — 3p of this into 3ij of
water every morning —

The Gleet. Leucorrhoea &c.

℞ Pulvis Ferni ꝑ. r. Rad. gentian ꝑ. r. m. t. pulvis —

Dr Whitt speaks highly of this medicine - I recom-
 mend to you Dr Whitt's book on Nervous diseases -
 The Gentian extracted by spirit and combined
 with some aromatic is the best preparation -
 Yellow Gentian has been found to prevent the
 paroxysms of gout - it enters the famous pow-
 der of Portland - Linnæus says it has relieved
Calculus - some writers assert that our Gentian
 is a febrifuge - Dr Lind says that from 10 to 20 grs
 of Pulv. Gentianæ with R. Sacrum has cured Inter-
 mittents - I have long used Gentian in powder
 believing this to be the best mode - I think it
 is equal as a tonic to Columbo - it is one of
 the best vegetable tonics - our Gentian has
 been recommended in Scrophula - the gentian
 has been recommended in case of worms -
 it is one of our best and most valuable bit-
 ter medicines - I use it combined with nutgum
 in Gleet, Leucorrhœa, & dyspepsia & Pulvis Ferri
 gr. V - Pulv. Gentianæ gr. V -
 The Gentiana Cantabrica is a native of Europe
 but has been found in this country - it is chiefly the
 stalk and leaves that are employed - it is very
 bitter, but has little smell - its virtues are ex-
 tracted by Spt. vini - water extracts the mucilage -

Gentiana Linearis - narrow leaved
gentian is found in Virginia —

X *Trasaca Officinalis* - it is not
the true Colombo —

Professor Murray prefers this Gentian - D. Murray says it is antiseptic - D. Cullen says it is an inferior kind - the Centaury purges - this effect is obtained by boiling 'tis in aqua 'tis vis - it possesses tonic powers - has been used with advantage in Quartan fevers - it is said to be injurious by increasing fever - This Gentian has been used in Gout - is recommended in Jaundice & Icterus - our country possesses several species not inferior to the foreign Gentians - in Pennsylvania, New Jersey &c. there grows a species with narrow leaves - it has been used in Colic with success and hence supposed to be narcotic - The American Centaury is different and much better than foreign ones -

X Calumbo of Kentucky, which is similar to that of the shops - it is but little inferior to foreign ones - it exists in great plenty in the United States - I knew it in 1797 - I found it in Genesee in the state of New York - the root is very large - sometimes as large as a man's arm - the proper time for taking it up is when the flowers have fallen off, which is about August - it is a very pure bitter -

Quassia - a few years ago, a very ^{few} species
 of this were known - it was first discovered
 by a black slave whose name was Quassy,
 hence the name of this article - there are now
 many species known - Quassia Amara,
Quassia Polygama and Quassia Marouba -
Quassia Amara grows in South America, in Sur-
 inam - it is very bitter and is said to be in-
 -odorous - I deny this - it is not nauseous - the
 bitter quality resides in every part of the Quassia -
 it is much stronger in the bark than in any
 other part - the root and wood is very bitter
 or if it impregnates 1 gallon of boiling water -
 from experiments it appears to be a very good
 bitter - it is not so bitter as the Calocynth -
 and is little inferior to yellow Gentian - this
 Bark is not a general antiseptic - I am now
 speaking of the kind used in the United States -
 I am to speak of the use of Quassia in diseases -
 it is used in the Remitting Fevers of Surinam -
 also in continued fevers - it is used in combi-
 -nation with Snake root - Monro used it in
 fevers with success - Mr. Long recommends
 it in dropsy and fevers - R Quassia $\frac{1}{2}$ lb.
 this aqua ~~is~~ boiled down to $\frac{1}{2}$ - a wine glass
 for an adult - a decoction is made of the wood -

Quap. has been used in the composition
of Pater —

x dose 15 gr to 3℥

Dr Lettsome says it is good in diseases of the stomach and nervous debility, hysteria &c - Dr Chouet used it in combination with many articles - he wrote very long prescriptions - in his day a long prescription was considered the best sign of a ~~smart~~ smart Physician - simplicity in writing prescriptions, should always be your aim - I hope you will write short ones - I seldom use more than 3 articles at once - if a 4th come in, it is a syrup or something of that kind -

Quassia has been used in Gout by Sandow, Boerhaave - In Dyspepsia, and Laxity of Intestines Quassia is very good - Quassia has been used in Diarrhoea, combined with Sandalum -

I have employed Quassia frequently - I mostly use the watery infusion - patients will use Quassia longer than any other bitter -

x The Quassia Balygana grows in the West Indies - it differs little from the former - I have never seen it - In Jamaica, it is used in Dropsy - in the form of a Tincture - it is used in Amenorrhoea - Chlorosis, Dyspepsia & in a disease of irritated appetite, called Pica. Pica -

What a stupid mistake, a man might keep his ideas in
his head while he writes 3 pages

December 21st 1809

Quapia Simarouba - This grows to the size of a large tree in the island of St. Domingo - in Jamaica it is called bitter Damsel

this vegetable does not appear to possess any astringency or mucilage - it is a pure and simple bitter - Spt vini or aqua extract its virtues - It has been used in France in Dysentery with great success -

It has been recommended in all diseases in which bitters have been employed

It is used in Hemorrhages - said to be used in the ^{later} ~~early~~ stages of Dysentery when there is little or no fever present and when the gripes and tenesmus depend on Delirium -

Sir Jm. Bringle used it in Diarrhoas and old Dysenteries - used in fluxes of every kind -

It has been used in Diarrhoea to the quantity of 'ʒij' or 'iij' every 24 hours by Dr. Cullen - he says he has not found it useful in Dysenteries -

Habitual colics attended with fever and delirium have been relieved by the use of our medicine - it is said to be a good vermifuge -

The Columbo we formerly spoke of was ^{indigenous} ~~foreign~~ produce - we now come to speak of that which is ^{foreign} ~~indigenous~~ to our country -

Columbo - This article which is common a
 use has been long known - it is spoken of as early
 as 1765 - the diligence of Botanists has not been able
 to discover the vegetable of which this is the root -
 It is a native of Asia - it is a strong and disagree-
 able bitter - its taste is somewhat pungent - but it
 may be rendered agreeable by the addition of orange
 peel - it yields its virtues best to spirit its virtues
 reside in the resin -

D. S. Crouvel found that Beef kept longer from putre-
 faction in Bark than in Columbo - consequently he
 inferred it to be less antiseptic -

We thought that in the Yellow Fever of the West Indies (of which he was ignorant) Columbo would be good -
 he believed Columbo not to belong to the hepatic
 bitters - I believe it is a stimulating medicine -
 Every Physician finds it necessary to attend to the
 pulse when he administers Columbo or Gentian -
 Columbo is used in Intermittents - I have used it
 in fevers of this kind and am favorable to the use
 of it in many cases - those to which it is adapted
 are, persons whose constitution are very delicate
 and in whom the chill is not violent - The late
 Mr Pattenhouse was of this kind - I cured him of
 an Intermittent by the use of Columbo -
 I have used the Columbo in Pulmonary Hectic
 Fever - it must not be given in a paroxysm, but
 during the Apyrexia -

Dr. Cullen says he has used Columbo in Dyspepsia with advantage - it must be given in large doses, and persisted in for a long time - it is best used in substance - I often prescribe it in combination with different preparations of Iron, as the Carb. Ferri - Columbo is used in Dysentery - Dr. Cullen says the use of Columbo in this disease has not obtained in Great Britain - it has not been much used in the United States - I do not think it is adapted to the early stage of Dysentery -

Columbo has been used in diseases of the stomach by the natives of those countries in which it grows - it is likewise used in Cholera Morbus -

Dr. Monro says Columbo is good in bilious disorders - Dr. Percival recommends it in severe vomiting & in diarrhoea accompanying dentition in children - with respect to the dose of Columbo, it must be regulated according to the age and circumstances of the patient - to an adult ʒi or ʒss - 4, 5, 6 times daily, may be given - the dose is sometimes as great as ʒi, 3 or 4 times daily - from too large doses of Columbo, I have seen much injury - In one case constriction of the Chest was produced - I have had little experience in the use of Columbo, except given in substance - it may be used in form of Infusion - the watery Infusion is very perishable -

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Met. Colombo

℞ Rad Colomb, Ziip
Spirit - ℥ XXXij
digest —

An infusion of Rhubarb has been
used as a tonic in Dyspepsia —

We should prepare a very small quantity of the watery Infusion at once - we cannot too much discourage the use of the Spt. R. Columbo - or any other bitter, especially in females - all drunken females are said to be made so by the Doctors. -

Xanthoxia - the medical properties of this plant were first investigated by the late Dr. Jas. Woodhouse - the bark and wood of this plant are very bitter - The Dr. thought it little inferior to Columbo - when laid on the tongue it produces some pungency - it may be used in powder, infusion or decoction - This plant is found in various parts of the United States -

Hydrastis Canadensis - called also yellow-root - it grows in the Ohio - it is a valuable bitter and is employed in the Western countries -

Nelleborus Trifolius is used in New York - I have not published any account of this plant, but I promise to do it hereafter - it is used in Dropsy and some other diseases -

Lichen Icelandicus a species of moss, known
 in some part of the name of Iceland moss - this
 plant is found in our countz - perhaps it may
 be found on the rocks of New Hampshire - it
 is found between Latitude 40° & 50° in abundance -
 this plant is very mucilaginous and by being de-
 prived of its bitterness and boiled in milk, it
 yields a good pottage - ʒij boiled in a quart
 of water, yielded ʒviij of mucilage - I know
 nothing of it, from my own experience - it
 possesses a little astringency - it has been
 much used lately in Consumptions of Lungs -
 Berquin prescribed it in Consumption, and found
 patients to get well under the use of it - it is
 boiled in milk and given to patients as their
 only diet - said to be less beneficial in those
 Consumptions which are attended with Inflam-
 mation than such as depend on debility -
 It is said to relieve the cough, restrain the sweat,
 lessen the diarrhoea in Consumption - The au-
 thorities in favour of this medicine are highly
 respectable - it seems to me very probable that
 it may be good in some Consumption, especially
 when the lichen is pure and good, which is very
 seldom the case as we receive it -

An Extract of Camomile has been
in use, but I can say very little of it—

December 22 1809 Friday

Chamaemelus - of this there are many species in our country - I am now to speak of that which is most common the

Anthemis Nobilis - the flowers are the part which is used, they yield an essential oil, and are somewhat bitter - this is much celebrated as a Stomachic medicine - the flowers have been much used in Intermittents, in powder - Dr Hoffman entertained a great opinion of it - Zps. 3 or 4 times, was given in an Intermittent - Dr Cullen has used the flowers - given in too large quantities, they are said to run off by stool - Sir Jno. Pringle found an Infusion good in Dysentery - it is probably useful (as Cullen says) by moving the bowels - it is one of the most grateful of the bitter medicines.

Lupulus Communis or Hops - This is not so pure a bitter as some of which I have spoken - it is used in making malt liquors - the medicinal properties of the hop are not much known - it is said to be an antilithic - it is said that since the addition of hop to malt liquors, there have been less calculous cases in London, but Dr Sydenham seems to think otherwise -

Chambers - of the same name

of the same name - of the same name

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Dr Darwin says the bitters promote digestion
by the absorption of chyle we had this before

It is said the Hop may produce Gravel -
the famous Erasmus had ^{gravel} ~~gravel~~ and he
said it was brought on by the use of malt li-
-quors -

We are told of a man who cut 1400 persons
for the stone - not one of which had used
malt liquor, but wine - I think malt li-
-quors do lay the foundation of Nephritis in
many persons - I know this by experience -
Porter is injurious by the hop it contains, be-
cause it is likely to produce calculus - the hop -
is a tonic medicine and the infusion has been
recommended in debility, in Febris alba &c -
I believe the tonic power of porter depends on
the hop it contains

It is said that Porter drinkers are less often
opailed with Intermittents, than those who
drink Brandy - Porter seems well adapted
to low Typhus fever - but by a constant use
of it, the Constitution is much injured -
more so than by wine - ~~with~~ hop is certainly
endowed with narcotic qualities and it might
be placed among the narcotic medicines -
the vulgar have fancied that hop pillows would

* Dr. B. is vulgar

Smit H Kaps

Rp Lupuli 3 p

Opt Mini 3 0 -

duyert

produce sleep — Lemicaen appears to be the first who spoke of its narcotic quality — the effects of puter on the pulse depend on the hops it contains —

Every Narcotic is a Stimulant —

Tincture of Hop is a good substitute for Opium in many cases — 60 grs. of Lupuli are equal to 20 grs. of Opium — the tincture of Hop agrees with many who cannot take Saunderman I have been obliged to lay aside Saunderman in my own case and to use the De Populi —

The following formula is the one I have used and which I recommend to you —

℞ Lupuli optimi ℥iij.
 opt mini - ℥viij - infuse the hops in
 the spirit for a week, agitating it frequently —
 keep it in a temperature of about 80° Fahr.
 decant it off for use — the taste is intensely
 bitter —

Tanacetum or Tansy — this is a powerful
 bitter — it was formerly used in Gout — Dr
 Clark recommends it in this disease — I
 advise you to read Dr Gardner's treatise on
 Gout — of the anthelmintic properties of tansy,
 I will speak hereafter —

Artemesum Abiguthu & Wormwood

is a strong bitter and is used as a tonic in many cases —

The name Cinchona is derived from Cinchar, a Countess, who used the bark in a fever with success — it was sent to the Jesuits and being used by them was called Jesuits Bark — called also Cardinal's Bark —

an Indian being ill of a fever and very thirsty went to a pool and drank freely of the water, around which the Cinchona grew in abundance — the water was thus impregnated and cured him — others followed this example with similar effects —

I have now finished my history of those
 bitters in which there exists ^{no} ~~some~~ astringency—
 I am now to consider those medicines of
 the vegetable kingdom, in which the as-
 tringent and bitter principle is ^{or} combined.
 and first of Peruvian Bark—this
 medicine shall occupy at least 3 lectures—
 it is one of the most important and indispensable
 medicines— it is one of those medicines which
 were not known before the discovery of America—
 it has not been found in the old world—
 a few years ago, only 2 species were known—
 The Cinchona lancifolia, or officialis of
 Linnaeus, was employed; Dr. Sydenham and
 was the first sort that was used in Europe—
 this is the Pale Bark of the shops—called
lancifolia because its leaves are shaped
 like a lancet— the tree from which the Pe-
 ruvian Bark is obtained, is a native of A-
 merica— it grows very high and is sometimes
 as thick as the human body— the common
 diameter is 6 or 8 inches and the height 12
 or 15 feet—

Cinchona oblongifolia— the leaves are of an
 elliptical form and the tree grows to the height
 of 120 feet— the trunk is 4 feet 6 inches thick—

tree
 + this is of small size not more than
 12 or 15 feet high

Cinch Canafol — pale bark
 — Cordifolia — Yellow do
 — Alongipolia — Red do

It is a native of Peru and is found in Santo
 Pé - this tree affords the red bark - this species
 does not appear to have been used before 1729 -
 it is less worthy of notice than the Pale bark -
 because it is so often adulterated -

Cinchona Cordifolia - called by Ball - Cin-
 + chona putrescens - the bark of this species
 was not known before the year 1740 - I do
 not know certainly from what species the
 yellow Bark is obtained - probably from this Cordifolia -

Cinchona Caribei - this species is not
 much employed - The Europeans did not
 discover the febrifuge virtues ascribed to it -

I will give you some directions for selecting barks
 of ^{all kinds} the most powerful, is that which is obtained
 from the oldest trees - from the trunk - the
 bark after being well dried, if secured in trunks
 from moisture, acquires strength - Bark pre-
 served in shops for years instead of growing
 worse, grows better - large fragments are
 more liable to spoil than small ones, because
 they absorb more moisture -

Did you ever collect it -

December 26 1809

Peruvian Bark

It much advantage could be gained from the chemical analysis of Bark, I would detain you with it - I refer you to Thompson's Chemistry on this subject - vol - 5 -

The bark is one of those substance, in which the bitter principle and astringency are obviously combined -

The Bark is a very powerful tonic - the operation of the bark on the stomach, demonstrates its Tonic power - In Dyspepsia it is an excellent remedy - The bark in this disease certainly operates as a tonic - when the bark cures, Intermittents, it is certainly by its Tonic power - astringent have cured Intermittents, as Galb. & Sims of London says that the operation of bark, must be owing to some principle unknown - I will for a moment admit that bark does not operate as a tonic - it operates by some unknown power - In Intermittents the bark operates by producing a new disease - I candidly declare I do not know its operation - I now proceed to consider its use in different diseases -

Ever since I have read lectures, I have considered the Practice of Physic as connected with the Materia Medica -

December 2d 1800

Dear Sir

The enclosed advertisement, which is given for the
 purpose of selling of Books, I have obtained
 with it. I hope you will find it interesting and
 useful.

The book is one of those substances, in which the
 human principle and reasoning are admirably
 combined.

The book is a very powerful treatise - the author

of the book is the author, I am not at all

reminded. The book is the same containing

operates as a tonic - when the book is the

temperament, it is certainly of the same power -

although I have some doubts about it, as I

do not of course say that the operation of the book

must be owing to some principle unknown

to me for a moment - but that book does not

operate as a tonic - it operates as a tonic for

the temperament the book operates, I have no doubt

a new disease - I cannot decide that it is not
 known it operates - I am however to conclude
 it was in different diseases -

Intermittent Fevers

It is not my province to explain the nature of these diseases - The question has been asked - At what period should the bark be given with most safety and advantage? Dr. Boerhaave says, give it when the fever has existed long enough to do harm - I think we should give it as soon as possible - give it after the first paroxysm - I shall speak of pure Intermittents in which the paroxysms do not appear attended with great danger - The physician has no business to wait for a repetition of the paroxysms - Dr. Sydenham thought it was necessary to wait until a fermentation was produced in the fluids before giving the Bark - The bark may be used with entire safety immediately after the first paroxysm - I could give you many opinions of different physicians to prove this - I recommend to your perusal "Leind on Fevers" -

I believe many patients are subjected to Dropsy by neglecting the timely administration of Bark - I believe the mildest Intermittent partakes sometimes of Inflammatory fever - in these I think it unsafe to give the bark until venesection is used - otherwise the bark will not be apt to good - In an autumnal intermittent fever, I had to bleed 8 times before I gave the bark - I am persuaded that it is best to use some evacuation preceding the use of bark, this is the result of my own observations - the common practice has been

1771

Intermittent Fever

It is not my province to explain the nature
of these diseases - the question has been asked
At what period should the bark be given with most
safety and advantage? I have some doubts
when the fever has lasted long enough to be
thought one should give it as soon as possible - and
it after the first paroxysm - I shall speak of this
intermittent in which the paroxysms sometimes
attended with great danger - The physician has
desired to wait for a repetition of the paroxysm -
I apprehend the thought of one more paroxysm is
a great temptation - but I have seen it fail in
giving the bark - The bark may be used
the safest immediately after the first paroxysm -
I would give you many opinions of different physicians
to show to prove this - I recommend to give
some "Solid in Fever" -
I believe many patients are disposed to stop
expecting the third or fourth paroxysm -
I believe the most prudent intermittent patients
take of stimulating food - in this I think it
unsafe to give the bark until recovery is
near - otherwise the bark will not succeed
in an intermittent intermittent fever - but
three or four before I give the bark - I am
persuaded that it is best to use some evacuation
preceding the use of bark - this is the result of my
own observation - The common practice has been

to give an emetic, as Dr Cullen said to excite the action of the stomach —

I do not believe it necessary to create activity of the stomach; we should guard against it — it is often the very reason why we cannot succeed in getting bark to lay in the stomach —

I do not assert that emetics are always improper before the use of Bark — they are sometimes necessary — but they are not the best evacuants we can use — we may use emetics where there is little pain in the head — where diarrhoea is present, emetics are certainly good as preparative, to the use of Barks — in intemperate men emetics are best before the use of Bark —

Purgatives are certainly the best evacuants before using barks — one of these is Calomel 15 grs — sometimes combined with some other medicine — Jalap is much less useful because it disposes to nausea —

Colocynthis is good as an evacuant —

I mostly conjoin with the Bark a small quantity of Rhubarb and I think it a good mode — in my practice I have been governed by my fear of constipation —

Bark often stops on Intermittent even when the Rhubarb purges — this I know from experience —

to give an emetic, as I believe and expect to
action of the stomach -
I do not believe it necessary to create action of
stomach; we should guard against it - it is
the very reason why we cannot successfully
bring to bay the stomach -
I do not expect that emetics are always necessary
before the use of bark - they are sometimes useful
- but they are not the best means to be
used - we may use emetics when there is
little pain in the head - when there is

present, emetics are certainly good and useful
+ It tends to prevent the use of bark
return to the use of bark - in many cases
emetics are best before the use of bark -
I suppose are certainly the best means to be
used before the use of bark - I believe it is
sometimes combined with some other medicine
Jalap is much less useful because it is
more -

but expect a good as an emetic -
I must say with the best of intentions
of the mind and I think it a good reason
to expect I have been prevented of my friends
-
This is the case in the treatment of the
stomach - the stomach is very sensitive

Many writers condemn the practice of giving Calomel with bark - Verserius is one of these - I never give strong Cathartics with bark - merely enough Rhubarb to keep the bowels gently open -

It was formerly a custom to give small quantities of Bark a little before the period of paroxysms - some eminent practitioners have ^{approved} applied this practice, but Cullen says it was only from ~~they~~ they did so - Cullen's *Materni Medica* - he wishes bark to be used just before a paroxysm - this I think is very improper - it tends to increase the violence of paroxysms - the stomach at this time is very irritable - and here bark often produces, puking - I do not deny that the bark should be given just before a paroxysm but this is when the paroxysm is of short duration -

Professor Home says the Bark should be given just after the hot fit goes off - he says a considerable time is necessary for its operation - he thinks its effect depends on its action on the blood vessels -

may the Bark be given with safety during the hot stage? Dr Clark says the cure of Intermittents depends on giving the Bark without any regard to remission, intermission, exacerbation or any thing else -

I have never intentionally given the bark during the hot stage - it is a very injurious practice - I have heard of but one physician in this city who

Many other countries the practice of giving
 the sick a drink - however, one of the forms
 of giving a drink - and the most common
 is to keep the patient lying down -
 off one's feet, a cushion to give comfort
 of the body, and before the patient is
 some movement, the patient is to be
 treated, but with care, it is not for nothing
 to do so - unless the patient is
 the patient back to be used just before a
 the patient is very important - it is to be
 the value of the patient - the patient is
 the time is very valuable - and the patient
 after the patient is lying down - it is to be
 back should be given just before a
 but this is when the patient is of the patient
 Professor James says the back should be given just
 after the first fit off - he says a considerable time
 is necessary for it - he thinks it is necessary
 in it is not in the blood -
 May the back be given with great benefit
 I think says the case of the patient is very
 the back without any regard to the patient's
 the, excellent in any case -
 There never enters into the mind of the patient
 the back - it is a very important practice -
 There is a great deal of it in the case of the patient

used to give back during the hot stage - this
Physician is now no more -

There are some cases in which bark may be given during the hot stage - it is much safer to give it in the hot stage in tropical climates than in cold ones - it is entirely unsafe to give bark during the hot stage if the patient have not a moist, hot skin - the moisture of the tongue should be attended to in the administration of Bark - I have seen Bark succeed in the hot stage when the tongue was moist -

Atkins. I have been treating of the Use of Bark
in simple Intermittents which do not assume
dangerous forms - I am next to speak of those
which wear a more violent aspect -

At the 1st of May 1861

was to give back during the stage -

Physic's is now no more -

For we have seen a whole boat may be given
during the last stage - it is much safer to give

in the last stage in tropical climates than

in cold ones - it is entirely unsafe to give back

during the last stage of the patient has not to

wait but then - the moment of the stage

should be attended to with the administration of

Back - I have seen Back given on the last

stage when the stage was almost over

What I have seen is the last of Back

in simple intermittent - but of the symptoms

dangerous forms - I have not to speak of

which was a more violent aspect -

It is not to be given in the last stage

to the patient - it is to be given in the

stage of the disease - the last stage

the first appearance of the Physic's is

in the last, giving it then to the patient

It is not to be given in the last stage

in the last stage - it is to be given in the

stage of the disease - the last stage

the first appearance of the Physic's is

December 28th 1809 Thursday

Peruvian Bark

I am now to speak of the use of bark in more dangerous Intermittent - While the paroxysms exist, the patient is often insensible and actually labours under apoplexy - the pulse is oppressed - the pulse is sometimes remittent and sometimes Intermittent - when intermittent, the apoplexy departs - if it be remittent, the patient labours under the symptoms already mentioned - in the remission the patient looks wild - Turbott calls it *Febis Remittens Apoplexica* - the bark appears to be well adapted to this species of fever - but I rather think the bark ought not to be given in many cases until after bleeding - be this as it may the bark is the grand remedy - In the Intermittent fever which appeared under forms of Sleepiness the bark succeeded - The great dependance of the Physician should be on the bark, paying attention to the Apoplexy. Intermittents are often combined with Catarrh or as I might say, Catarrh puts on the Intermittent form - this was the case in the Influenza - this disease was cured by the bark - nearly allied to this is the Asthmatic Section of the bark is of service in the remittent as well

The first of these is the fact that the
 human mind is not a blank slate at birth.
 It is filled with a vast amount of
 information, which is acquired from
 the environment. This information is
 stored in the memory, and is
 available for use when needed.
 The second fact is that the human
 mind is capable of learning. It can
 acquire new information, and it can
 modify existing information. This
 learning process is essential for
 the development of the individual.
 The third fact is that the human
 mind is capable of reasoning. It can
 analyze information, and it can
 draw conclusions. This reasoning
 process is essential for the
 development of the individual.
 The fourth fact is that the human
 mind is capable of feeling. It can
 experience emotions, and it can
 be influenced by them. This feeling
 process is essential for the
 development of the individual.
 The fifth fact is that the human
 mind is capable of acting. It can
 perform actions, and it can be
 influenced by them. This acting
 process is essential for the
 development of the individual.
 These five facts are the basis of
 the human mind, and they are
 essential for the development of
 the individual.

as the Intermittent — these fevers often arise from the same cause — marsh miasmata — these diseases are the same and only varieties of a common species — an opinion very early prevailed concerning the bark, that it should not be given during the paroxysm — I have said this was true in most cases, but not in all — the Bark ought not to be given in Remittents until purging and bleeding are used — this applies to our Climate — in hot countries it may be given without previous bleeding — Typhus fever — this has been supposed to arise from one common cause — the state of the human effluvia — it is constantly the result of irritating matter acting on the system — it appears to be at first inflammatory — as the bark in this disease is a good medicine, I wish to give you some directions as to the time of giving it — we must be governed by the pulse — the evacuant plans may be carried on for some time previous to giving the bark — it must not be given while the pulse is full, the eyes suffused and symptoms of Phrenitis are present — the time of remission is the period for giving the bark — volatile alk — I have always chosen the remission —

the first of these is the fact that the
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The indiscriminate use of bark in all stages of Typhus does harm - in the advanced state of Typhus where there is delirium the bark must not be given - here opium is a sovereign remedy - The bark can hardly be called a good medicine in Yellow Fever

Typhus is certainly contagious, tho' I do not think yellow fever is contagious - I attended a family with typhus and in a short time 24 persons in the neighbourhood were afflicted with the same disease - 1796-7 -

In Yellow Fever bark has been tried, but is not successful - the bark has been used in the Plague and has been successful - Dr Mackenzie says bleeding did harm in this disease, but in plethoric patients he thought it might answer - Dr Mackenzie with Boggan practice, many of which were in the plague, says the bark proved successful in many cases -

Dr Cullen mentions a genus of fever called synocha - in this fever, the bark is improper & dangerous - this fever attends phlegmatic and topical inflammation - most agree that bark is improper in all inflammatory fevers - - Senae used bark with success in Pleurisy attended with Intermittent fever - The bark has been used in cases of acute Rheumatism -

D. Morton has used it in this disease - as it depends on what is called Diatheris Phlogistica it is said that bark is very improper - but says Cullen after the inflammatory symptoms are reduced, the bark may be a safe medicine - but caution is certainly necessary -

In Rheumatism, combined with Intermitting fever, Cullen says the bark is useful - of the use of bark in acute Rheumatism I have had no experience - some English Physicians give it with advantage in this disease -

D. Naygar recommends the bark as the best remedy in this disease -

D. Fothergill mentioned the connexion between Ague & Rheumatism - in both, the urine deposits a latent sediment -

In Rheumatism of the Jaw which is periodical the bark given during the absence of pain may be very useful -

From my own experience I am convinced that Rheumatism is often attended with alternations of ease & pain - during the remission of the pain, bark is useful

In Rheumatic affections of the head, the bark given in the remission of pain is successful -

I mention this with confidence —
 In the Rheumatismus Nystericus or dolores
hystericus the bark is a good medicine —
 I have never seen this disease as I know of — Dr
 Cullen says it will not admit bark. Because
 there is no crust on the blood — the bark may be
 given in many cases of Inflammation —
 out of 100 cases of yellow fever, there were
 but 3 in which the blood had the Inflamma-
 -tion crust — until the month of October —
 Gout — Dr Gregory says that bark may be given
 in this disease — Dr Gardner says it is injurious —

The bark may be used when the gout depends on
 great debility — when it assumes the Intermittent
 form^{as} in my own case, a dose of bark trans-
 -lated the disease to my chest producing violent
 pains —

In the Intermittent Gout, bark may be given
 during the Intermission — but it is only safe
 in those cases where the patient has not been
 subject to a translation of the disease to vital
 parts — Dr Small says his case of Intermittent
 fever was cured by taking Tart Emet. ^{gr} during
 the intermission and then a dose of bark —

Cephalgicæ & Nemieramæ — in the former
 nothing is better than Bark; this is the case

where the pulse is full and the constitution
 Plethoric - I have known it succeed after
 blisters had failed - in many cases bark is the
 sovereign remedy - it should not be given
 while the pain is present -

Hemicrania - this disease is frequently of a
 Gouty origin - I have known a case in which
 Hemicrania was produced by rubbing a gouty
 swelling with Sol. Acet. Plumbei - the bark
 should be given in the intermission of the pain -
 this disease is to be treated as an Intermittent
 fever - there is a great tendency in the Constitu-
 -tion to periodical diseases and this should be
 attended to - in nearly all of these diseases, the
 bark is a remedy that may be depended upon -

Dr Barton Dec 29th

Pleurisy in the head— This arises from the same causes as those which produce Intermittents— the disease is ushered in with a chill— the bark is found to be a good medicine— Copious bleeding is injurious— tho' the pulse sometimes deceives us—

Cholera Morbus sometimes demand the Lancet— this sometimes occurs periodically— Dr Elephans found bark given during the intervals to be a very good remedy—

Dysentery— the bark in this disease is an old practice— Dr Marten gave it when attended with fever— during the Apyrexias— this disease often is produced from the same causes as occasion Intermittent fever— Dr Cullen says the bark is improper in the first stage of this disease— I agree with him in this opinion—

Dropsy— in this disease, bark is sometimes useful— it is often accompanied with remittent or intermittent fever— In Hydrocephalus Internus the bark may be given frequently with great advantage— this disease assumes on many occasions the form of a remittent fever—

In the periodical headaches of adults, the bark is often very beneficial - When Dropsy comes either in Anasarca - Hydrocephalus or ascites, under the form of Typhus, I think the bark is an excellent medicine -

The connexion which often subsists between Dropsy and Jaundice, makes it necessary to speak of the latter disease - Jaundice or Icterus is often the effect of a stop in the alimentary canal - here the bark may be useful as a Tonic - when jaundice is accompanied with fever the bark may be advantageously used during an Intermission -

Phthisis Pulmonalis - in this disease the bark has been recommended - here I must observe that Phthisis is frequently attended with what Dr Cullen calls a Phagitic Diathesis of the system this will be increased by bark - Bergius says he never knew the bark do harm in Phthisis - Van Swieten says the same - When Phthisis is attended with hectic, the bark may be good during the remission of the hectic - There is a Phthisis in marshy countries in which great quantities of mucus are thrown up destitute of color - here says Murray the bark is a good remedy -

- the

This disease is more common in United States than has been imagined — The bark is injurious in tubercles of the lungs —

In Menorrhages of red blood bark has been given hemorrhages should be considered as active & passive — the bark must be injurious in Hemoptysis which is an active hemorrhage —

In passive hemorrhages the bark may be useful — in Menorrhagia Dr Cullen said it was good, but I cannot agree with him —

Uterine Menorrhages often depend on a laxity of the neck of the Uterus — here the bark is an excellent medicine — the remote and exciting causes must be kept in view —

Bloody Urine — hemorrhages of red blood from the Bladder are more of the active kind than from the Kidneys — in lax states of the Kidneys, they often discharge blood, by which the urine is coloured; here bark is good* —

Scorvy — I have approved of bark in this disease — bark is celebrated as a dentrificer but it should not be combined with Chem. Fats —

I am next to speak of fevers of the Exanthematic kind — in them the bark is certainly often good* — it has been used in the Eruptive fever of Small pox —

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the bark may be given before the formation of
pustules —

Measles — here bleeding is often necessary —
the disease is frequently of an inflammatory
kind — the hoarseness succeeding measles is
worthy your attention — it sometimes requires
bleeding — but often yields best to Bark, in
combination with the Solat. Alkali & Opium —

—
—
—
January 1st 1820

Scarlatina is often compounded with Measles
These diseases are not easily distinguished — In mild
scarlatina without any affection of the throat
and in many true cases of this disease, the bark
is not necessary — Dr Withering writes well on this
subject — I recommend his work to you — In the
angry cases, bark with wine whey has suc-
ceeded better than any thing else — Dr Keble of
Sancarten care, —

Erysipelas — the bark has been used in this dis-
ease — Dr Cullen seems opposed to this practice —
this disease appears under various forms —
I have seen it very inflammatory cases &
in these bleeding and blistering is necessary — this
is true particularly in Erysipelas of the face &

head in women - here bark would have done
harm -

Erysipelas in our city often appears in the form of
debility - there are what some call putrid -
here, there is a great tendency to Gangrene &
the bark is necessary -

The English Physicians assert that Zi bark every
two hours is the only remedy in Erysipelas -

In London the disease is treated as a putrid one -
In Scotland it is treated by a low diet & the
antiphlogistic plan -

Reberden says that Erysipelas is often of a ~~most~~
malignant nature - he gave Decoct. Barks
with opium &c - In this city I have seen bark
after bleeding necessary -

I have once seen Erysipelas from puncture made
by a lancet and introducing variolous matter -
the wound suppurated and round it Erysipelas
extended over the Thorax to the opposite arm -
it was cured by calomel - this disease is described
only by Savary ^{auger} - the variolous matter was good, for
the same matter in several persons had the desired
effect - this was in 1793 -

I have seen one of the same kind produced by
vaccine matter - the disease was not so violent -

Scrophulous or Vesicular Fever - I have seen

many cases of this disease in our city - it is light generally, but sometimes severe - it runs very high in adults and requires bleeding and purging - this disease is very uncommon at present.

I will mention the names of several patients whom I attended - Mrs. McTear - Mr. Smith - Rev. Mr. Wiley's child &c I refer you to Cullen for a description of this disease - I do not believe it to be a species of Erysipelas - the bark and acids have been found good in this disease and especially the barks. but this not till after bleeding & purging - the face is most inflamed - vesicles arise as large as the end of a persons finger - the neck is first affected, then the face and sometimes the whole body - it often appears as tho' Cantharides had been sprinkled over the body -

Spasmodic & Convulsive affections - in these the bark has been much employed - as in Epilepsy - this disease often depends on an organic affection of the brain - here neither the bark nor any other medicine that we know of, can do good - the disease often depends on plethora & turgescence of the blood vessels - here the bark does harm - bleeding in this species is found useful - the blood mostly gives the inflammatory crust - Cullen says he has not found bark good in this disease - he found mineral tonics much better -

Mead used bark with Valerian in Epilepsy —
 Verkhoff added to the bark a few drops of
 alum Cajeput — Dr. Knap non-living had
 Epilepsy which he says he cured with large
 doses of bark —

Tetanus — of the use of bark in this disease, I
 have had no experience — I refer you to Dr.
 Rush's papers on this subject — I believe the
 bark may be useful in this disease —

Tetanus has been produced by vegetable
 poisons — here the bark has been found good —
 Mineral Poisons often produce Tetanus —
 all narcotic vegetables and mineral poisons
 are stimulants and may produce Tetanus —
 here the bark is useful —

Dr. Rush found the bark good in Tetanus &
 so have many other physicians — but in all
 these cases we ought not to ascribe the whole
 of the good effects of the cure to what were produced,
 to the bark alone; there is always a considerable
 quantity of wine used along with the Bark —

We frequently meet with a convulsive disease
 called Chorea Sancta Viti — this often depends
 on a peculiar mobility at certain periods of
 life — Cullen thinks the preparations of Copper
 too strong to be long continued, but he advises
 the bark & Chalybeates —

sometimes, Bark is combined with Al. Cajeput -
 Dr. Sydenham's mode of curing this disease
 is peculiar; he bleeds and then gives bitters -
 Bleeding has done good in some cases - Case re-
 lated in which evacuant proved successful -
Pertussis - called Whooping or Chir - Cough -
 in this disease bark has been found good - but
 the proper time of administering it is not certain -
 Cullen says the bark may be given when the force
 of the contagion is gone and the disease is owing
 to debility - This disease has appeared to me
 to be complicated with Intermittent or Remit-
 tent fever - I have lived in this disease -
 The Whooping Cough was Epidemic at Göttingen
 and the bark was the most successful remedy -
 Monro used the bark combined with Castor -
 if our young patients could be prevailed upon
 to take the bark regularly in the intermissions
 it might be advantageous - But we are told
 that the bark in external applications, may be
 serviceable in this disease -

Asthma - The paroxysms of this disease often
 seem to depend on plethora - here bark is
 very improper - but asthma sometimes de-
 pends on a peculiar mobility of the system -
 here bark is an excellent remedy - The par-

The first of these is the fact that the
 the second is the fact that the
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 the ninety-eighth is the fact that the
 the ninety-ninth is the fact that the
 the hundredth is the fact that the

symptoms of Asthma are often periodical -
 here, the bark given during the intermission, is
 successful - the bark has been much recom-
 mended in Angina Pectoris - in this disease
 Dr. Smith recommends bark and the bitters in
 London purging, & the bark are resorted to -
 this disease is often of gouty origin and here
 the bark is not good - The bark has been advised
 in Hysterical Diseases - in Hysteria so called it
 is not used with advantage - bark combined
 with opium has been used in Melancholia &
 in Maniacal cases, the bark has often done
 good -

Gangrene - Mr. Hunter has divided gangrene
 into two kinds; with and without inflammation -
 Mr. Hunter considers inflammation as increased
 action in the part inflamed - in the treatment
 of Gangrene, it has been common ^{to} attempt to
 be weaknes, instead of the increased action -
 I think bark is not good in preventing gan-
 grene accompanied with inflammation -
 here blood letting is certainly the best remedy -
 in a weak and languid action of the heart &
 arteries in gangrene as in Typhus fever, bark
 is certainly the best - here it may not be improper
 to notice Albre. Haartman's experiments -

The first of these is the fact that the
 number of people who are engaged in
 the work of the government is increasing
 rapidly. This is due to the fact that
 the government is becoming more and more
 active in its work. It is now engaged
 in a number of important projects, and
 it is necessary to have a large number
 of people to carry out these projects.
 The second fact is that the number of
 people who are engaged in the work of
 the government is increasing rapidly.
 This is due to the fact that the
 government is becoming more and more
 active in its work. It is now engaged
 in a number of important projects, and
 it is necessary to have a large number
 of people to carry out these projects.
 The third fact is that the number of
 people who are engaged in the work of
 the government is increasing rapidly.
 This is due to the fact that the
 government is becoming more and more
 active in its work. It is now engaged
 in a number of important projects, and
 it is necessary to have a large number
 of people to carry out these projects.
 The fourth fact is that the number of
 people who are engaged in the work of
 the government is increasing rapidly.
 This is due to the fact that the
 government is becoming more and more
 active in its work. It is now engaged
 in a number of important projects, and
 it is necessary to have a large number
 of people to carry out these projects.
 The fifth fact is that the number of
 people who are engaged in the work of
 the government is increasing rapidly.
 This is due to the fact that the
 government is becoming more and more
 active in its work. It is now engaged
 in a number of important projects, and
 it is necessary to have a large number
 of people to carry out these projects.

Quartanar Work

Barks used externally in Quartanar

The barks has thus been found beneficial

I know not who first used it in this way

In the 17th century Helvetius gave bark in the form of Clyster in Intermittent

Edwards says bark ^{is good in} intermittent when used as a glyster

some apply bark to the abdomen in the form of poultices made up with wine or water

This has been frequently used without any benefit

It has been recommended to quilt bark between cloths for children in fever

Some have used it by sprinkling it on the linen of the bed clothes on going to bed

In infants under 2 years, Intermittent fevers have yielded to the

bark shirt - The shirt must be taken off in the hot stage and worn during the cold stage

I Henry Jacksons Dissertation

We found that Zip bark quilted in linen & applied round the wrist increased the frequency of

his pulse, created fever & dyspnea in the palms of his hands

In many cases of venereal disease, mercury will not cure without bark

Bark cures Intermittent which would not yield to Mercury - Van Swieten relates a case where the patient was salivated for an Intermittent

[The text on this page is extremely faint and illegible, appearing as a series of light-colored lines across the page.]

fever and was afterwards cured by the Bark —
By suspending certain actions of the system
by Mercury we often pave the way for the
success of the Bark —

Bark often cures, after Arsenic fails —
of all the articles of the Materia Medica
none are more likely to be permanent, than
the Bark when will you finish the bark, weary a load
only 60 pages on the bark short interest

Jan 2^d 1840

A very important combination is formed of
Peruvian Bark and serpentaria - the powers
of the Bark are thus increased - it seems well
adapted in this way to Typhus, small pox &c
this combination is less allowable in Rheumatism -

It is often important to combine with the Bark
Peru, the powder of Valerian - Camphor added
to the bark increases its powers in the Typhus aff-
Pulv. Sinapii has been added, & grs to ʒij of Bark
with good effects - this is adapted to Intermittents
tending to Typhus -

A more powerful medicine is made by adding
to Peru Bark ʒij, Cayenne pepper ʒss

I should suppose this adapted to Tetanus —

Olum Cajuput ʒtss is often added to ʒss Bark —

Huphans
 Ruet Bark made
 of Bark, Gentian, Limes Nutmeg
 Spirit &c —————

This has been used in Tertius - the Peru Bark has been combined with Castor - it is common to combine Opium with Bark - this is good in some Intermittents - In Typhus, I did use this combination - we have often to use Sandarium with Bark, to prevent the latter from running off by stool - the Bark has been combined with Ex. Cicutæ - of this I shall speak in lecture on Cicuta -

The volatile alkali is often combined with Bark, especially in Typhus fever.

The tonic powers of Bark are increased by being combined with Iron, Copper &c -

Blue vitriol added to Bark frequently - Arsenic enables Bark to operate more successfully - we sometimes combine Bark with Crem. tart. - I have never used this combination but it is much recommended

I have often combined Rhubarb with the Bark - the combination of Crem. tart with Bark is found useful in Dropsy -

I have often combined the Carbonate of Magnesia with Bark - I have used $\frac{zj}{ij}$ of the former to $\frac{zj}{ij}$ of the latter - this combination has been found good in Pyrosis - the Bark combined with Fossil alk. has been used in Scrophulous affections -

Magnolia glauca - dose 3i

tripetala

acuminata

grandiflora

auriculata

Traseri

d

x Prunus virginiana

Magnolia we have many species of this
in our country - Magnolia glauca - tripetala -
acuminata - grandiflora - auriculata -
and Fraseri - it is a warm, bitter tonic, with
some astringency - [3j of the Bark powdered, in
molasses was given 3 times a day in a case of
Intermittent fever with success - it has been used
in Peripneumonia notha - Pleurisy, Typhus -
Rheumatism, Consumption &c its operation is
somewhat similar to that of Gentian & Columbo -
it often reduces the frequency and increases the full-
ness of the pulse - all the magnolias appear to
have the same properties - The newly expanded
flowers of magnolia glauca increase the parox-
ysm of fever - the bark in decoction proves
gently cathartic

Liriodendron Tulipifera abundant in the U.S. -
It is closely allied to the Magnolia - the bark is in
tonic and frequently used in Intermittents - some
think it little inferior to Peruvian Bark - I
have never employed it -

x Cerasus or Wild Cherry tree is a ^{durable tonic} ~~durable~~ tonic -
antelmintic undoubtedly - it has been used in
Dyspepsia, Consumption, Lumbar Abscesses,
with hectic fever,

x nobody can read this - I can

+ This has been mistaken by some
for *Kalmia latifolia* or Broad leaved Laurel

Salix pentandra and *latifolia* — alba —
— *latifolia* —
— alba —

Asculus varia

— *Lana*

— *Rhipocastanum* —

+ The cherry is called by some Prunus Lauro -
Cerasus - a decoction of the Bark has cured
 a violent tooth ache - it has been used in pow-
 der in Intermittents - the bark is bitter and es-
 tringent - a decoction of the bark is used in case
 of worms -

Salix alba of Sericea or Willow tree - this
 bark is little inferior to the oak in tanning, of
 course it is astringent - it is highly antiseptic -
 the bark and leaves have been recommended in
 Gout, Scurvy &c - our medicine has been found
 good in Intermittents, Dr Stone cured 56 persons
 with this disease with the willow alone - Dr
 Cullen speaks well of it - Stone used the bark
 of branches 4 years old - Dr Waller says a decoct-
 ion of it has been used in Rickets

Aesculus Hippocastanum or Horse Chestnut -
 we have two species in the United States. Aesculus
Pavia and Flava -

Mahogany of the Bay of Honduras - called by
 some Swietenia - this bark has cured Inter-
 mittents - it is inferior to the Bark as a Tonic -
 the bark is called by some a Refractory - I have
 used it in Intermittent fever

Cornus Sericea

L. lorida

Canadensis

Carcinata

+ Rose or Red willow

+ this must be distinguished from
Spigelia & Seneca

Persea has filices & roots —
the roots of Seneca are thick —

Cornus Florida or Dog wood - the recent bark is not ^{as} good as that which is older, because it is likely to purge - it is astringent and has long been used in Intermittent - The ripe fruit or berries infused in spirit or brandy make an agreeable bitter - an infusion of the flowers has been recommended in flatulent colic - -

+ Cornus sericea - this has been used in the American army - the bark is red within - it is little inferior to pale Peru bark in Intermittent - There are other species of this plant as the Cornus canadensis - carolinata &c. -

Eupatorium Perfoliatum is used in Heurtes ^{Thorough wort} ^{whistle throat}

+ Aristolochia serpentaria or Virginian Snake Root - this is only found in America - it is one of the more stimulating bitter tonics - It is good in some fevers inflammatory after bleeding - the Spigelia Marylandica is to be attended to, it is probable that Virginian Snake root is similar to the Aristolochia rotunda - Aristolochia serpentaria is an aromatic bitter - it raises the pulse - Snake root is most safely given when combined with Bark - Dr. Sydenham's work - Snake root is adapted to fevers which partake of Typhus -

Aristolochia longa is a bitter tonic
it has been used in Puttaw powder
in cure of Gout — the following is
the formula of this powder

Aristolochia longa

Gentian tops

Chamaetis

Chamaepetis

Centauries as equal parts

Mist pulv — 3j every morning in
glass of wine for 6 months — after
this 3j in same way for 6 mos — after
this 3j every other morning —

+ Croton Eluterius —

o aromatic, somewhat stimulant —

Angustura is stimulant, aromatic
and bitter — dose 2i 3 times a day —

Jan'y 4th 1869

+ Cascarilla Bark - is said to good in ^{useful}
Nemoptysis - I doubt this much - I think it
 0 useful - Dr. Colson places this among the tonics -
 I think it allied somewhat to Aspermatia -
~~it is a native of our country~~
Arnica Montana or Lepore's Bark is
~~a little an aromatic~~
Angustura is a recent acquisition to the
Matena Medica - with this medicine I
 shall close my history of the vegetable tonics -
 the name of this bark is said to be derived
 from the name of a place whence it was first
 obtained - it has been supposed to be the plant
 brought home by Dr. Bruce - I proceed to take
 some notice of its use in diseases - the powder
 may be given in the dose of 20gr every 3 hours -
 for adults - the Angustura is compounded
 with many other medicines - it is used in
 cases of Spasmodic Dysentery and habitual
Diarrhea - the decoction of Angustura Bark
 in these diseases is said to answer better than
 the substance - it has been used in powder
 in Intermittent fever in dose of 15 or 20 grains -
 I do not believe it as good as the Peruvian Bark -
 Dr. Pearson says it is inferior - in Irregular
nervous fevers it is said to be better than the

The first of these is the fact that the
 human mind is not a blank slate at birth
 but is filled with a vast amount of
 information which is acquired from the
 environment. This information is stored
 in the memory and is available for use
 at any time. The second fact is that
 the human mind is capable of learning
 from experience. This learning is done
 by comparing new information with
 information already stored in the memory.
 If the new information is found to be
 different from the old information, the
 old information is discarded and the
 new information is stored in its place.
 This process of learning is called
 "assimilation" and it is the basis of
 all human knowledge. The third fact
 is that the human mind is capable of
 creating new ideas. This is done by
 combining information already stored
 in the memory in new ways. This
 process of creating new ideas is called
 "innovation" and it is the basis of
 all human progress. The fourth fact
 is that the human mind is capable of
 solving problems. This is done by
 applying the information stored in the
 memory to a specific problem. This
 process of solving problems is called
 "reasoning" and it is the basis of
 all human decision making. The fifth
 fact is that the human mind is capable
 of feeling emotions. These emotions are
 caused by the information stored in the
 memory and they are a part of the
 human experience. The sixth fact is
 that the human mind is capable of
 communicating with other people. This
 is done by sharing information stored
 in the memory with other people. This
 process of communicating is called
 "communication" and it is the basis
 of all human society. The seventh
 fact is that the human mind is capable
 of creating art. This is done by
 combining information stored in the
 memory in new ways to create
 something that is beautiful or moving.
 This process of creating art is called
 "artistic expression" and it is the basis
 of all human culture. The eighth fact
 is that the human mind is capable of
 creating science. This is done by
 applying the information stored in the
 memory to a specific problem and
 creating a new theory or law. This
 process of creating science is called
 "scientific inquiry" and it is the basis
 of all human knowledge. The ninth
 fact is that the human mind is capable
 of creating religion. This is done by
 combining information stored in the
 memory in new ways to create a
 new belief system. This process of
 creating religion is called "religious
 expression" and it is the basis of all
 human faith. The tenth fact is that
 the human mind is capable of creating
 philosophy. This is done by combining
 information stored in the memory in
 new ways to create a new system of
 thought. This process of creating
 philosophy is called "philosophical
 inquiry" and it is the basis of all
 human wisdom.

bark because it agrees better with the Stomach -
 Brand used in decoction combined with some
 other aromatic - ʒi in 24 hours - In the ulcerated sore
 throat, cynanche scarlatina, the Angustura
 bark has been found good used in decoction -
 I find the Pale Angustura in Agave Mentha has
 been used in Periodical headaches - Dr Pearson
 says the Angustura is excellent in diseases of the
 Stomach - he considered it capable of producing
 the effect of any of the warm bitters as camomile -
 as a general rule it has been said that the
 Angustura is better than the Peruvian bark - this
 I do not believe -

In cases of Chlorosis* and obstructions, Pale
 Angustura combined with Chalybeate has been
 found very good - some British Practitioners
 have used Angustura in Whooping Cough - it cannot
 be useful in all the stages of this disease - it is
 said not to allay the violence of the cough if
 emetics were not previously used - In some
 respects Angustura is preferable to the Peruvian
 Bark, as in some diseases of children - they
 take Angustura when they will not take Peruvian
 Bark - it agrees with them better and is not so
 likely to pass off by stool - it is on the whole a
 valuable medicine -

Crocus Martii is red oxide of Iron
 Altho' Martialis Black oxide of Iron

Irones Martiales made of Mur. Ammoniac
 & oxide of Iron —

Sartans Martiales Super Salt of Iron —

He ought to say, in my humble opinion — it is much more
 likely to be correct than any assertion of Dr. B. & his influ-
 ence is 100 percent to 1 compared with Dr. B's

I have now finished of my vegetable tonics & proceed to speak of Metallic medicine, as Iron, Arsenic, Silver, &c—

I will not detain you with the Natural History of Iron - Iron is used in various forms - the preparations of Iron are as follows - Iron in substance not dissolved by acids - as the *Lunatuna Ferri* - *Aethiops Martialis*, *Cracum Martis* - *Pulvis* or *Carb. Ferri* - 2 - Such as are reduced to the form of salts by acids - *Sal Martis* - *Tartarus Martialis* - *Ferum Tartarizatum* - *Fluxus Martialis* -

see Dispensatory 3 - Those which are dissolved by acids, in a liquid form as *Linct Muriati Ferri*, this is the *Linct Martis* of the Dispensatory - *Uremia Chalybeata* done of this is 3ss in a day - Under this head if time would permit, I would speak of the *Chalybeate Mineral Waters* - these may be useful in many cases, but they are exaggerated in their virtues - persons who return from these springs, with health derive much benefit from the ride, change of air, diet &c - they are used so indiscriminately in all cases that I believe they do much harm - I shall not turn of the action of Iron on the system is incorrect - the general opinion of Physicians

it is not readily soluble in the ly. juice in

of what use ~~is~~ such conjectures

is that Iron acts as a stimulant & astiring ant-
 I think the term Tonic though ambiguous would
 be better - Iron is readily soluble in Gastric
 Juice - its effects in increasing the pulse are
 evident - Iron proved to speak of its
 use in disease, - as a tonic and medicine
 is not so well adapted to Intermittents as
 Peruvian Bark - but I believe that the prep-
 arations of Iron might be good in some cases
 of fever - the Rubys Ferri with Pulvis Cassiam-
 mi might be good in Intermittents - but the
 Iron will probably never be much used in
 Intermittents - Iron as a tonic, tho' permanent,
 is slow in its action - In the inflammatory
 stage of Intermittents iron is very injurious -
 it is likewise hurtful in all disease arising
 from Plethora - in flaccid habits the prepara-
 tions of Iron are likely to do good - in depraved
 habits as Cullen calls them -

Silvus albus with fever is increased by the
 use of Tonics - but where it appears to depend
 on debility - I know from experience that our
 medicine is good -

In Gleets I have used preparations of Iron
 with manifest advantage - this disease is
 often a general affection and topical

application as strong injections often do no
 good - here Iron with Colchicum is useful -
 In Retentio Menstris depending on debility
 and weakness of the uterine vessels the prep-
 arations of Iron are excellent - in such cases
 I have often used Iron with ac. Salicis -
 of the last medicine I shall speak hereafter -
 in some cases of retentio menstris, iron is
 injurious - In Chlorosis or Leucorrhoea there
 has been a controversy among Physicians as
 to the use of iron - the preparations of Iron are
 well adapted to many cases of this disease -

The first mention of the
 name of the river is in the
 early part of the 17th century
 when it was called the
 River of the Holy Spirit
 and was the subject of a
 dispute between the
 French and English
 as to the right of
 navigation. The
 name was changed to
 the River of the
 Holy Spirit in 1674
 and it was not until
 1763 that it was
 called the River of
 the Holy Spirit.

What are we to do with the pigs of Cattle?

January 5th 1810

The various preparations of Iron have been used in Hemorrhages, - this is of ancient date - the astuteness of man is not considerable and cannot be much entitled to notice in hemorrhages - the preparation of copper may be good - but there are cases, where Iron may be used, as in hemorrhages depending on laxity of the uterus - here they act as Tonics - there is much necessity necessary in the use of Iron - sometimes it proves injurious - some of the preparations of Iron have been used in hemorrhage from the Kidneys - in these cases, there is often no pain and the preparations of Iron may be useful - 6 grains of Opium & Rubigo Ferri same quantity mixed with flum & water is good in the bloody urine of Cattle - in pure active hemorrhage as Epistaxis, Iron proves injurious - the lancet is the best remedy - I have seen violent epistaxis in old age - it yielded to Lead - in Hemoptysis, Iron is injurious - it is an active hemorrhage - I before rejected the Bark in this disease - Even in Pulmonary Consumption, Iron has been used with advantage, though not with entire success in debility predisposing to Phthisis. I have used Carb Ferri with Creta - my experience of the use of Iron in Phthisis convinces me that it is good -

The Hemorrhoids sometime depend on increased action of the Intestine, - here Iron is injurious - but hemorrhoids is sometimes owing to debility, and here Iron might be used - the preparations of Iron sometimes act as purgative - I cured a case with Rubys Ferri 10 gr 2 or 3 times daily combined with a little Rhubarb - This was a constitutional disease -

In Dyspepsia, Iron has been much recommended - but in all cases it is not good - in treating of Mercury I will show you that tonics are injurious - Iron is ill adapted to Dyspepsia of Pletoric persons - In this disease Iron is mostly combined with Gout - In Pyrosis or Water Brash - Iron has been found useless, especially the Carb Ferri - it is mostly given with Linn's -

The preparations of Iron have been used in Dyspepsia complaints - but in those cases depending on excess of action, Iron is injurious - in the forming stage it may be useful - Dr Sydenham cured it with Garlic - In certain obstructions of the Liver & Spleen, Iron has been used with success -

Iron has been advised as a remedy in Gout - it can never do good in regular inflammatory Gout - but in Chronic irregular gout Iron may be used with advantage - but can sometimes produce disagreeable effects.

The first of these is the fact that the
 system is not a mere collection of
 parts, but a whole. It is a system
 of parts, each of which is
 connected with the others, and
 each of which is essential to the
 whole. The second is the fact that
 the system is not a mere collection
 of parts, but a whole. It is a
 system of parts, each of which is
 connected with the others, and
 each of which is essential to the
 whole. The third is the fact that
 the system is not a mere collection
 of parts, but a whole. It is a
 system of parts, each of which is
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 whole. The ninth is the fact that
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 of parts, but a whole. It is a
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 connected with the others, and
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 connected with the others, and
 each of which is essential to the
 whole.

The preparations of Iron after determining Gout to vital parts - Several of the preparations of Iron have been used in the intervals of Asthma - the Carb. Ferri is the best - Dr Bree says Iron often cures this disease - in regard to the operation of Iron Dr Bree thinks it is owing to an accession of ~~the~~ oxygen to the system - Dr Bree says it must only be used in the intervals of asthma - and is not adapted to the asthma of Plethoric patients -

Cancer is a subject on which I always touch with hesitation, but I must inform you of the medicine used in this disease - the preparations of Iron have been used in this disease - the Carb. Ferri has been used, sprinkled on cancerous ulcers - Iron seems to have solicited the notice of surgeons in Cancer under the idea that this disease was an organized body - but Cancer is like worms, an extraneous body - the British Surgeons have lately prescribed Carb. Ferri in this disease and they say with success - In certain species of Cutaneous Eruptions Dr Bree has used Iron with apparent success - The antihelminthic properties of Iron are considerable -

It is a general opinion that Iron exerts its effect in the stomach and that its effects are thence communicated to other parts of the body - Iron has been detected in the urine of patients by a French Physician - but I never could perceive it in urine when the Iron had been long taken -

There was a man in the Pennsylvania Hospital who took 40 grs of Iron in ^{one} day - it could not be detected in his urine - he used this quantity daily a long time - Dr White says that the Iron taken into the stomach never enters the Lacteals - but Dr Hodge of this University proved the fact more certainly - he proved that Iron does not ~~Iron~~ enter the blood vessels - but I must believe that Iron is sometimes received into the blood vessels by the lymphatic absorbents - vegetables certainly absorb Iron as I myself have many experiments - Dr Walmsley in his Inaugural Thesis has proven that Iron is not absorbed except in a few cases - I do not think that Iron which is found in the blood is carried there by the absorbents, for Iron is found in vegetables raised in water only - Iron is found in the blood of every animal whether herbivorous or carnivorous - many experiments should be made on this subject on different animals - some say that Iron is taken into the system along with our food - I admit that blood contains more Iron when the person has taken martial medicines - but it does not follow hence that the Iron is absorbed - Lime, silica, Iron &c are furnished by the juices of vegetables from the fluids they take up, tho no Iron be presented to them - for vegetables nourished solely in distilled water yield a quantity of Lime -

Dose of Flores Martiales 5 to 10 grs
 it is apt to mount in larger doses—
 Ferrum Tartarizatum dose 20 grs to 3j

Jan 8th 1810

Dose of Iron - Dr Cullen says that this medicine fails often on account of the smallness of its dose - it is always best to begin with small doses of the saline preparations and gradually increase - Dr Cullen has found the stomach to bear Rubigo Ferri best - he begins with 5 grs for adults and gradually increases the dose - he has given ℥i in dig - he says that the stomach bears Iron better ^{when} joined with some aromatic - I have not been in the habit of prescribing Iron in large doses at first - I begin generally with 5 grs and seldom with more than 10 grs 3 or 4 times a day - I have given ℥i in the West Hospital for several days without any injury - The Italian Physicians mostly employ the Limbatura Ferri - I find it convenient to give Rubigo Ferri in combination with Cinamon - it is a good and agreeable medicine -

Copper - Dr Cullen places this among the astringent medicines - it would be better to class it with the Tonics - it is a stimulant tonic - This is proved by its curing many diseases depending on a loss of tone in the system - some preparations of Copper are found to prevent the paroxysms of fever - Dr Lemm says that copper is insoluble in the stomach, and its effects inconsiderable on the bodies of animals - Dr Duncan says that copper exerts no effects except mechanically - but I think this is incorrect -

Copper is soluble in the natural juices of the body - many facts prove this - The pernicious effects of copper in the system are many, as oppression at the breast, vertigo, delirium, deliquium animi, small weak pulse, convulsions, apoplexy, epistomatous eruptions, costiveness, purging with blood, colic - Such are the dreadful effects of copper - Nausea, vomiting and purging are often induced together -

People who work in Copper manufactories are as healthy as others, - but they are strict observers of the law, to wash the hands before eating, - they give their bodies an ablution every week - Copper exerts its pernicious effects on other animals besides man - Dogs for example by licking copper vessels soon die - birds are not injured by it - fowls prefer water from a copper pan even if the water be coloured green with the copper and are not injured thereby -

Copper as far as I know, has not been used in a metallic form as a medicine - it produces, sometimes, a salivating effect - a cent swallowed by a child produced a salivation in a few days - 4 lbs. of saliva were discharged in 24 hours - the cent was afterwards discharged per anum and was not much dissolved - different preparations of copper are used -

Uredo or Verdigris is copper corroded by the vegetable acids - this is employed as an astringent,

The Collets

℞ Aurago Ceres ℥viij - Oliviarum ℥vi - ℞ ft hyccio -

another formula

℞ acet. Cupri ℥i - opt. Sal. Ammoniac ℥iv terere in mortare &
strain and add Aqua ℥x ℞ ft hyccio -

The Intermittent fever -

℞. super. sulph. cupri ℥iv. Ex. Cort. Peruv ℥xxxij. Syrup. qss to make
℥ss XVI Signa 1 to be taken daily - if nausea came on add Ginger Br -

an escharotic - it is mostly applied externally - the
 mercurius has been used internally in malignant Ul-
 -cers of a venereal nature - I have never used it, but
 it is much recommended by others - mercurius enters
 into a pill which has been celebrated in Cancer -
 the external use is most common - it has been
 used as an injection in Glands - the recipe
 used by some is \mathcal{R} - $\text{Aurog. ari. } \mathcal{P}\text{ss. } \text{Al. alvian. } \mathcal{Z}\text{iv}$
 this injection may be used safely - another for-
 -mula is \mathcal{R} - $\text{Aurog. ari. } \mathcal{Z}\text{ij. } \text{Spt. Sal. ammon.}$
 $\mathcal{Z}\text{iv}$ rub them and strain and add $\text{Aqua } \mathcal{Z}\text{xx}$
 much weaker injections are better - Copper is
 an ancient medicine and was used by Hippocrates -
Vitrolemum Caeruleum - this has been called sulph
 of copper - but it is not - it is a super. sulph. cupri -
 it is copper combined with an excess of acid - this
 medicine has been recommended in Intermittents -
 the dose is from gr $\frac{1}{4}$ to gr 1 four times in die -
 Dr Adair gave it with other Emetics - when the
 Barks had failed in several cases this medicine
 has succeeded - he mixed the Blue vitriol with
 Canela alba made with Syrup into pills - the
 following formula has been used \mathcal{R} Vitr. Caeruleum
 $\text{gr. } \text{iv. } \mathcal{C}\mathcal{C}$ - $\text{Cort. Peruv. } \text{gr. } \text{xxxij}$ - Syrup q s to make 16
 pills - 1 pill to be taken daily - this is used in Intermittent
Fever - It sometimes creates nausea, this is prevented
 by the addition of Ginger - In 1800 I prescribed the

Blue vitriol in Intermittents, combined with Ginger - it failed sometime, but often did good after the Bark and Arsenic had failed - If I do not mistake, this medicine is most successful when it induces nausea -

When I treat of Coarctis, I will speak of the success of Ruben Sulf. Cupri in Consumptions with Hemoptoe. This medicine has been used in Uterine hemorrhages with advantage -

Cuprum Ammoniacum - This is made by the following method \mathcal{R} Vitriolum Coruleum $\mathcal{Z}\mathcal{ij}$ - Sol. Cal. ammoniac $\mathcal{Z}\mathcal{iiij}$ - rub these together until the effervescence ceases - then wrap it up & dry it on the top of a stone, and put it into a stoppered bottle - This has been recommended in Epilepsies and other convulsive affections - it is used in small doses - an adult gr $\frac{1}{4}$ in die & increase gradually - it is an active medicine - S. Lutter speaks favorably of it - he has used 5 grs a day and has sometimes succeeded in Epilepsy - S. Duncan has used it in Epilepsy and in some, without benefit, in other cases, with good effect - The Cuprum ammon. is certainly stimulant - at first it creates nausea - but it should not be given when the stomach is empty - or else combine it with aromatics -

R^y Acet Cupin 3i
 Mops land 3i —

+ the solution is crystallized & the crystals
 being pure, pour it into moulds —

In Dropsie, this medicine has been given with advantage - D-Willan recommends it - it has been used in that species of dropsy called Ascites - The Escharotic powers of the preparations of Copper have been long known - but since Mercury has become general, the use of Copper is much less attended to - I have used ~~with~~ Verdegreise combined with Myl. Basilicon, in Scrophulous and Venereal ulcers - I have used this ointment in the Olun? Hospital in old venereal ulcers - In Chancres, Verdegreise has been found good; when they are foul, Caustics are necessary - Verdegreise may be used in powder, ointment or solution - the solution may be made by rubbing 2 gr in 3j of water - this disposes the sore to heal - Copper has been applied to sores succeeding the use of Mercury - the Verdegreise made into ointment with Hog's lard has been found useful in Linea Capitis - this is a troublesome disease - in different affections of the eye, the preparations of Copper are often used - they act as astringents - Silver - the preparation of silver generally employed is Lunar Caustic, made by dissolving silver in Lunar Caustic - this has been long employed as an Escharotic - I have used it in Venereal Ulcers in solution - In the application of it, I use a

* a great discovery - I wonder how long a Camel's hair
brush will last in lunar caustic !!

* a queer way to make pills!!!

Camels hair brush - you can then lay it on any surface you please - to remove it, I use another brush with water - thus the patient suffers pain less pain than by the usual mode - This mode is certainly best in Chancre, in the Urethra - it is certainly an improvement in the use of Lunar Caustic.

Jan. 9th 1810

Silver - Argentum - Pilulæ Lunares, made by dissolving silver in dilute nitric acid and evaporating the solution till it shoots into crystals* - This has been used as a medicine - Mr Home speaks of ~~it~~ the solution of Lunar Caustic used in old obstinate ulcers - it stimulates granulation - the strength of the solution must be gradually increased - Ring-worm is sometimes cured by Mercury - the ungt. Citrinum is used in this disease - but when this has failed, the solution has been used with success - The Argent. Nitratum has been used in Epilepsy by Doering of London - it was used first in 1780 - dose 2 1/2 grs 3 times a day - Dr Capp of London has published the result of this medicine in Epilepsy - It sometimes produces Diarrhoea - This article has not been much employed in the United States - Dr Jardin relates a case of

Of Gold - Aurum fulminans is a
 cathartic made of Gold. used in Epilepsy -
 it is made by depositing Gold in aqua Regia and
 precipitating by potash - dose $\frac{1}{16}$ to $\frac{1}{8}$ gr.

Epilepsy cured with Argent Nitrat & Lunar Caustic
 I have employed this medicine in the Beau Hospital
 it did little good, but occasioned purging -
 Dr McQuinn has given 12 gr of this in one day in
 Epilepsy - This is a most distressing disease -
 in Plethoric persons bloodlet and bleeding are
 requisite - but the same have been used with ad-
 vantage - When the power of vomiting is affected
 in this disease little hope can be entertained
 from tonics or any thing else - Our medicine
 has been employed in case of Angina Pectoris a
 disease of which we know little - I knew one
 case cured by this medicine - Some have sup-
 posed that silver is taken up by the lacteals - I
 cannot readily assent to this, but its effects are
 rapidly conveyed to the Solids of the system -
 The Argent. is one of the most powerful an-
 tiseptics - in 12,000 times its weight of water it
 will preserve meat (& Black soap) forever -
Zincum - The Flower of Zinc - zinc when
 raised by a strong heat will take fire and burn
 with a white flame - This produces an oxide of
 zinc - the flower of Zinc have been used inter-
 nally - it has been used in Epilepsy - Gambia's
 advised from 1 to 2 gr is die - a woman with
 convulsion, took 5 gr daily with success -

The first thing I observed when I stepped
 out of the boat was a sense of relief.
 I had been so long in the city, and
 the air was so fresh and pure.
 The water was so clear and blue.
 The sun was so bright and warm.
 The people were so friendly and kind.
 The food was so delicious and healthy.
 The music was so beautiful and soothing.
 The dance was so graceful and elegant.
 The art was so simple and beautiful.
 The architecture was so unique and interesting.
 The history was so fascinating and enlightening.
 The culture was so rich and diverse.
 The traditions were so ancient and wise.
 The customs were so different and intriguing.
 The language was so beautiful and expressive.
 The people were so happy and content.
 The life was so peaceful and harmonious.
 The world was so full of wonder and beauty.
 I was so lucky to be here.
 I was so grateful for everything.
 I was so in love with this place.
 I was so happy to be home.

a Gentleman from the West Indies was cured of Epilepsy by Dr Kuhn - he used the Stone, Zinc & Donato Monro says he has given it largely without success - this medicine has been used in Hysteria - It is said that a person will bear Super Ammoniac & Stone Zinc as gr^y mixed, better than gr^y of each separate - The stone, zinc were used in foul ulcers in the American army - the salt formed by the union of sulphuric acid and zinc is known commonly by the name of White Vitriol - and Sulphate of Zinc - there are two varieties in use - the Sulphate & Super Sulphate - the sulphate is destitute of colour, transparent & has been mistaken for white vitriol - the Super sulphate is white vitriol and is to be spoken of - it is more soluble in boiling than in cold water - it effloresces on exposure to the air - when exposed to a high temperature it parts with some of its acid - this medicine has been used as a tonic in disease - it enters the famous Quaffin draught - I have used the Super Sulp. Zinc combined with powder of Gentian or Colombo - 2 grs of the former with 8 of the latter, in Hysteria - it often induces nausea - this salt has been used to advantage in Epilepsy - I used it in the Penne Hospital with benefit - this medicine has been used in Bertuspi - White vitriol does not produce all its good effects

In Portulacis -

℞ super Sulph. Turci ʒi Aqua Zvüj M ft. mist. signa 1 & 3
Tea for infants for a child 4 years old -

In Egleet -

℞ super Sulph. Turci; Sacch. Saturni aa ʒv Aqua Zvüj M ft. Hyatio

rather

℞ Sulph. Turci

Sacch. Saturni aa ʒv

Aqua Zvüj M

in this disease by reason of its emetic quality -
 Dr Saunders says it cures Inflammation of the
 Glottis - he does not use it with a view to pro-
 duce vomiting - I think the powers of this medicine
 in Whooping Cough are independent of the emetic
 qualities of white vitriol - I give it in solution
 on empty stomachs - at the same time I use the
 Pectoral mixture with it - the dose of white
 vitriol in this disease is not uniform - I dis-
 solve 20 grs in aqua $\mathfrak{z}\text{viij}$ and a child 4 years old
 should take 2 or 3 teaspoonfuls in 24 hours -
 the puking occasioned is not dangerous and
 not to be dreaded - children take it easier than
 Specacuanha and Antimonials - This white
 vitriol has been used in Gleet - I use 5 grs &
 the same quantity of Sacch. sat. in aqua $\mathfrak{z}\text{viij}$ -
 I know much stronger injections are used -
 In collyria for the eyes this medicine has been
 employed - 8 grs dissolved in $\mathfrak{z}\text{viij}$ aqua Rosa-
 acetate Zinc - This has been recommended
 as an eye wash - it is often used internally as
 an emetic in doses of from 5 to 10 grs - it is used
 in Gonorrhoea - 8 or 10 grs are dissolved in $\mathfrak{z}\text{vi}$ of
 Water or Mucilage of Gum seed or Barley
 water - Mr Henry says this is much better than
 white vitriol and occasions less pain - some
 physicians have said that this injection is the best,

+ The whole of the Bismuth made by
 precipitation from the Nitric Solution of Bismuth
 by means of the Polyphosphate done as follows

1. Dissolve 1 lb of Bismuth in 10 lb of Nitric Acid
 2. Add 1 lb of Polyphosphate to the solution
 3. Boil the mixture for 2 hours
 4. Filter the mixture through a filter
 5. Wash the residue with water
 6. Dry the residue in a vacuum
 7. Weigh the residue

which can be used - I have not used the Acetat
Zinci separately in Gonorrhoea - The following is
the best method of preparing it - To a solution of
white vitriol in 6 or 8 times its weight add a solution
of acet Plumbi w² or 3 times its weight of water -
mix and filter - crystallize

Bismuth - I have little to say of this medicine -
+ This is a metallic body resembling Zinc - it has
been employed in practice - in Geneva this medicine
is employed in disorders of the Stomach - 4 gr in 24
hours - The Magistery of Bismuth is made by
dissolving it in the nitric acid -

Arsenic - I proceed to speak of this medicine -
This is a semi-metal - Arsenic is found native -
it is easily known when it has the metallic appearance -
Arsenic is sometimes found as an oxyd - and is
distinguishable by its garlic smell when burnt -
it is the most volatile of all substances - it is a
most violent poison to all animals - This differs
from all other poisons - it is the universal poison -
arsenic in its natural state is never used in
medicine - I Fowler's solution is made by
boiling 6 1/2 lbs of Carb Potash 1 lb of Potash
of Arsenic 1/2 of water and the rest of the
much water as will make 3 1/2 make 1 1/3 -
(water)

Dr Darwin used a Saturated Solution
 of arsenic by boiling and then filtering —
 dose 10 drops —

I have used arsenic in form of pills in Inter-
 -mittent fevers - each pill contains $\frac{1}{4}$ gr of
 Pulv arsenici and $\frac{1}{4}$ gr of Opium - this is
 for an adult - it shows an obvious effect on
 the system - in the management of an Inter-
 -mittent, I have given 3 such pills in 24 hours -
 I would recommend this formula to your notice -
 it is better in substance, than in solution, as
 Fowler - I have proven this by experience -
 Patients take arsenic in substance with
 reluctance, they know its smell and the drop
 dose is very uncertain - but few know that
 we give it in the form of pills - I was led to
 use Opium with arsenic on account of the
 good effects which opium produces, when
 joined with arsenic Sacch. Saturni - I
 have seldom seen inconvenience from this
 medicine - arsenic sometimes affects the
 bowels - this is prevented by ~~disease~~ adding
 opium -

January 11th 1810

Arsenic - is inert in its metallic state on the system -
 I have known an Intermittent cured by gr of this mineral -
 but sometimes 3 grs are necessary, tho' I do not recollect of
 going further - Arsenic sometimes fails in Intermittent
 Dr Donald Monro did not find it very beneficial - Dr
 Fowler has given ^{accounts} 12 patients where the arsenic alone failed -
 when in solution -

Dr Pearson Long
 ago found to my
 of arsenic at a dose a
 remedy for eyes —

I have exhibited the arsenic without seeing it produce much benefit - my failure I ascribed to the tendency of the Intermittent at that time, to Typhus - some aromatic is to be combined with it in this case - In autumn 1808 I gave the arsenic without much good, and succeeded afterwards in the same persons with Blue Vitriol - Writers differ respecting the time of giving this medicine - I think it should be used as the Bark is, that is during an Aggrava-
 Arsenic being powerful and dangerous as a medicine, its ^{effects} success in Intermittent soon appears - (lead I told you was good in Hemorrhage) - If their effects are not soon evident, I omit their use - if arsenic when given to 2 grains does not succeed, I lay it aside - Dr Fowler relates cases of Intermittent of 5 months standing cured by his mineral solution 10 drops 3 times a day, in 8 days - although I have placed Arsenic among tonics, yet I do not believe that its effects in Intermittent solely depend on its tonic power - arsenic weakens the patient and nauseates his stomach - after the patient is freed from his fever, he is left languid and affected with a Dropsy, or at least an edematous swelling - this swelling affects the face, hands and feet - this swelling never appears until the disease is destroyed - arsenic produces the opposite effect of tonics - it produces a disease which I call Adema arsenicalis - the arsenic lessens the contractility of the cellular membrane, tonics increase it - I do not assert that Arsenic never cures intermittents without this Adema, but the swelling is generally induced - I never knew an Intermittent in an adult cured by Arsenic

without occasioning this edema. I believe any medicine may be so managed as to produce a tonic effect - and I do say that arsenic may be so given as to act as a Tonic - I saw two patients last summer whose appetites were increased by the arsenic - Dr Darwin says that arsenic produces its good effect in Intermitents by stimulating the stomach to greater action, whilst by its association with the heart and arteries produces its effect. I do not think this - I don

When the dose of arsenic makes the person sick and obliges him to lay down, I have always found the medicine to succeed - some persons have given arsenic with the view to its emetic effect - this medicine is safe for children as adults - it cures when Bark fails. in these cases there is generally an excess of arterial action - hence arsenic is better for vernal than autumnal Intermitents - When it is unequal to the cure of Intermitents it proves the better way for the bark - when both medicines have failed, the system is at least prepared the better for the use of Mercury - arsenic is not adapted to all Intermitents of long standing - arsenic is most safe in substance and joined with opium - as it is dangerous it should be administered with the greatest caution and attention to the patient -

27 Nov 3

* All the advocates of Arsenic as a medicine acknowledge
its deleterious effects why then use it?

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January 12th 1810

ARSENIC * being so very deleterious, that some have said it lays the foundation of incurable diseases. The edema produced by it is incurable by medicine, but it cures itself spontaneously - Arsenic is said sometimes to lay the foundation of consumption - This I believe is true in some cases - I have not known the arsenic in my practice do any great injury to the system and I have prescribed it daily and to various constitutions - Before the spring of 1804 I knew not that arsenic was used in Pulmonary Consumption - in that year a young lady with that disease applied to me - she had Intermittent fever with Consumption - I gave her this medicine & greatly relieved her - she caught cold and relapsed, but the arsenic restored her - she again relapsed from catching cold and at last died - Arsenic has cured Hectic fever - In the course of last summer I was called to see a lady with chills, cough, fever & I conceived the disease incipient Phthisis - here I might have used Cinchona - but I used Fowler's solution and cured her - she took in all $\frac{3}{4}$ of this medicine - From the great affinity of Rheumatism to Intermittents, the arsenic may be useful in that disease - I have used preparations of arsenic in this disease with good effects - it always produced considerable edema - I believe that arsenic is good in Intermittent Rheumatism - I should suppose it better adapted to acute than Chronic cases -

arsenic has been used in Egypt - in the
 spotted fever of Eastern States -

Arsenic has been recommended in Hemorrhage -
 It has been employed in obstructions of the liver
 and spleen - it is probable it operates somewhat
 like Mercury in these diseases - it does not operate
 as a tonic - Arsenic has not as I know been
 used in Hepatitis - Dr Darwin relates a case
 of palpitation of the Heart cured by arsenic - it
 was accompanied by Intermittent - by giving his
 saturated solution of arsenic he cured the patient -
 I told you that Nit agent was used in Angina
Pectoris - Arsenic has been employed with benefit
 in this disease - cases of cure are related - Arsenic
^{may} be useful in Epilepsy but I know not that
 it has been much employed in this disease -
 Arsenic has been good in cases of worms and
 convulsion occasioned thereby - I do not know
 much of its anthelmintic power - of the use of
 arsenic in Cancer I know very little - the use
 of arsenic in cancer is not new - it was used
 at the beginning of last century - various powders
 have been employed in cancer into which the
 Arsenic entered - Arsenic has been given internally
 in Cancer - it is said to lessen the pain of the sore &
 dispose it to heal - I have very little experience of
 the use of arsenic in this disease - In cancers of
 the womb, arsenic has been topically employed -
 decoction of carrot & hemlock has been injected into the womb -

23 are
 + level equal part of acid of arsenic & arsen
 of the tartar in the water - filled & crystal
 - large in liquid

In scrophulous swellings of the neck in children, arsenic has done some good - but I had to desist ^{from its use} after a while - in open ulcers of the scrophulous glands arsenic has done good - it is a powerful suppurative medicine given internally - arsenic externally or internally is good in ulcers succeeding Buboes - these often refuse to yield to Mercury - the disease is attended with pain & we are compelled to use opium - arsenic here has been used with benefit, internally and a wash of arsenic also applied - In all cutaneous affections the arsenic has been employed with much good - but its use is often very hazardous and imprudently used has occasioned apoplexy - I beg of you to guard against improper uses of this medicine - the greatest caution is necessary - I am authorized to say that Dr Cathall gave 3 gr of arsenic in one day in a case of Intermittent fever - but such large doses are injudicious - The arsenicum tartarizatum made of white arsenic and Crem. tart. in cert ain proportion is a medicine which is sometimes used - some Physicians think it entitled to attention - but I know nothing of it by experience - There is great caution necessary in examination of dead bodies supposed to be destroyed by arsenic - I advise you to read Dr Black's Chemistry on this subject - it is a common notion that the smell of garlic is always sufficient to detect the presence of arsenic in dead bodies - it is a most fallacious test indeed and not to be depended on -

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done from 3 lb to 3i of powdered tin
 it acts mechanically - because the unpalatable
 powder is not so good as the crasser

The Singultus
 R sulphur acid ten. ʒi - aquae menthae ʒi - R -

* Every thing in nature is used in Hemorrhage by Dr.

January 15th 1810

Stannum or Tin - I shall say nothing of this till I come to anthelminitics - its tonic properties deserve very little notice. -

Sulphuric acid - This is a tonic - of the medicinal chemical compound I shall hereafter speak - In the form of Elixir of Vitriol it has been much used by practitioners - Some of the effects of this acid show it to be a tonic - Sulphuric acid seems adapted to cases of debility in which we use the vegetable tonics - we often combine Bark with Elixir of Vitriol - Sulphuric acid has been used in Epilepsy - in certain other spasmodic affections this acid has been found useful - Dr Duncan used in Angulus Sulp acid tenui ʒi . Aqua mentha ʒi . - The Elixir of Vitriol has been found good in Fluxus albus - I have used it myself - Diluted sulphuric acid has been used in Hemorrhages of red Blood - in Uterine Hemorrhages - in profuse Catamenia - Sulphuric acid has been combined with Opium in Hemorrhages - This sulph acid given internally has been found good in Itch, in the Edinburgh Infirmary - Sulph acid combined with Laud is used in Rheumatism & Sulph. acid ʒi - Hyposulph ʒi - This is all I say of the sulph acid -

202.

18 2 30

Muriatic acid has been found good in Dyspepsia -
 x drops in water 3 times in die - as a Tonic I be-
 lieve it better than Sulphuric acid - some of the
 Physicians of Baltimore have used this acid in Jaundice -
 This acid as a Gargle has been praised as a remedy for
 sore throat - I have no more to say of this acid nor -
Muriate of Soda is a powerful Tonic - as it is
 universally used, it is less employed as a medicine -
 The inhabitants of Iceland do not use Salt - The
 Indians before the discovery of America used salt -
 In low Typhus fever salt has been found very
 useful - salt has been found to check the flow of
 blood in Hemoptysis - salt has been accused of
 laying the foundation of Calculus in the bladder,
 but I do not think it probable - salt has
 been used as an Antilithic in Europe - I have
 used Muriatic acid for this purpose - salt
 has been charged with injuring the teeth - it is
 likely that the intemperate use of salt may injure
 the teeth - the Laplanders have good teeth though they
 use great quantities of salt - salt is said to be
 poisonous to many Carnivorous animals -
 I believe that the atmosphere at Long Branch &
 such places is injurious to patients with Pulmonary
Consumption - Dr Smith of New Hampshire is of
 opinion that the prevalence of Bronchocele in South-
 ern countries is owing to the saline state of the air -
 but on this I cannot agree with him -

+ equally soluble, in cold or hot water -

Lime - Deprived of Carbonic Acid is Soluble in Aqua -
 * when taken internally it acts with a tonic or astringent
 power - The Aqua Calcis has been good in weak digestion -
 a wine glass full with as much milk or water may
 be taken 3 or 4 times in die - it agrees with the stomach -
 Its tonic power, are evident in allaying vomitings - I
 have used it with success in allaying Arturitic Vomitings -
 you have been told that lime has arrested the black vom-
 iting - I knew one case of black vomiting cured by white
 wash given in mistake for Aqua Calcis which I had
 ordered - in Chronic Diarrhoea - Aqua Calcis and Milk
 has been found useful - Injection of Aqua Calcis with
 Mucilage of G. arabic have been used in Gonorrhoea - it
 is best adapted to chronic cases, where there is little in-
 flammation - Aqua Calcis as a wash has been found
 good in Ald Ulcers - In a future lecture I shall speak
 of Aqua Phagedenica - Aqua Calcis has been used in
Burns mixed with Oleum Oliviarum -

Muriate of Lime as a Tonic is better than lime itself -
 its taste is bitter and pungent - it has been used in
Scrophula of every kind - it is always necessary to begin
 with 1 or 2 drops two or 3 times in die, in water - I
 am sure I have used this medicine in Scrophula with
 success - I have used it in open Scrophular ulcers - Dr
 Griffiths says he has found it more useful in Acute
Scrophula - I have used this medicine in Bronchocele
 or Gaitre - the dose must be regulated with its manner
 of agreeing with the stomach - The last article which
 I mention in this lecture is the

Vitric acid is tonic
 has been used in Syphilis & Hepatitis
 but Mercury is far preferable—
 ℥i to ℥ss 3℥ss as a
 gargle is used sometimes—
~~It has seemed to cure (but a Milder)~~
has seemed cure

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Muriate of Barytes - the taste of it is pungent it is
poisonous in a large dose - it has been used in Scrophula
and hectic fever - its dose is 5 drops at first - in too
large doses it occasions sickness, vertigo &c -
In Cancer it has done much good - it has been
used in old ulcers of the legs - The Scrophula of negroes
is different from that of whites - in these cases the
Muriate of Lime has been found useful - this med-
icine has been said to be good in the Venereal disease -

==
==
==

End of Series -

after
 strong drink
 w/ alk.
 mark
 - apirun -

Barton's list

January 10th 1810

Incantia a stimulant - Synonymus terms -
 I shall include in this, those articles, which are
 more stimulant than any we have yet mentioned -
Volatile alkali: this is an important medicine &
 almost indispensable - in placing this higher than
 Opium I differ as you see from Dr Brown - I
 would place Othe at the head of the list, 2 Strong
 drink, 3 Vol. alkali, & musk 5th Opium - This
 is quite contrary to Brown's list - but as there are
 other Stimulants I will not follow this plan -
 I am far from giving a complete history of this med-
 icine - its Stimulating quality is manifest to all -
 O'Callen calls it Antispasmodic - I do not retain such
 a class - the Volatile alkali has been used in cases
 of Intermittent fever - it has been used before the
 paroxysm - and is mostly used combined with Opium -
 This medicine combined with Bark may be useful
 in Typhus Fever - the Volatile alkali is much
 used in Jail & Hospital fever which are of the
 Typhus kind - this medicine has done harm by
 being used indiscriminately - it is improper in the
 first stage of Typhus - but in the 2^d stage where
 debility is present, this medicine may be used -
 Sir Jno Ovingde says it is used, properly in the third
 stage of Typhus - writers have not said much
 respecting the time proper for giving this medicine -
 in the exhibition of vol. alkali &c you should choose
 a period of apyrexia -

+ Wine-Whey is made as follows

Put a quart of milk in a convenient vessel and let it boil, then add a gill of white or cherry wine - or if 1 gill is not sufficient to separate the curd add more - let it stand a few minutes, till the curd begins to separate - then lay a muslin rag or piece of fine gauze over another vessel, and pour the whole on this in order to filter gradually - the filtered liquor is transparent and is the wine whey, which is to be made palatable as may be required -

The vol. alk combined with Bark or Valerian has been given in cases of Periodical headache — I do not think our medicine adapted to Consumption — but I have found it good in some cases of Pneumonia disposing to Typhus — this occurs in marshy countries — this disease has always been increased by depletion — after bleeding in Pneumonia has been used & the pulse is soft, the vol. alk. is very useful, wine whey, opiates, blisters &c — in this case the alkali is good by its stimulating and expectorant qualities — this article is adapted to some cases of Puerceral Fever — when it assumes the shape of Typhus — it is a common disease — in declining stage of Pulm. Consumption when cough is urgent and debility great and we use cordials, the volatile alkali is very important — it produces remarkable effect on the tongue — its colour is changed — the that obstinate hoarseness succeeding measles, the vol. alk is one of the best remedies — I used the watery solution of Carb. Ammonia with Gum Arabic and Sugar — I believe I just used this — this medicine has been used in Pertussis — it has been used in Pyrosis — it acts by neutralizing acid in the stomach — it has been employed in Dysentery — the vol. alkali is peculiarly suited to Dysentery with Typhus — this alkali is adapted to many cases of Chronic Diarrhea such as occur in hot climates — I never employed volatile alkali in Golica Pictorum but I think it may be good —

Eau de luce is Vol alkali
and ab Amlier —

R. Syphilis —

R. Carb. ammoniac ʒi - G. arabic ʒi Saccharum album ʒij -
Aqua ʒviij - Rft Mistura —

This Alkali has been used in Rheumatism — it is best in Chronic case — some combine juva — am with it — I have used the watery solution of Carb. Ammoniac and have given 60 grs in 24 hours — I have given 3 in a day — a dose ^{for a day} ~~which~~ 3 is small — In case of irregular Gout where we employ Quin, the Volatile Alkali may be very useful — Dr. Kuhn has used this alkali with more success than opium — our medicine in the form of Vol. Tinct. Guaiacum, the simple water & the pill have been found good in Dropsy — Dr. Sydenham deemed the Alkali an excellent remedy in convulsion from dentition — I have never used it — many writers have considered the Vol. Alkali as a remedy for the bite of the Viper — the Vol. alk in the form of Eau de Luce has been called a specific in the bite of the Viper — Dr. Santana did not find the Alkali of any use in this disease — it increased the violence of it — he says it is useless in this disease and often exaggerates it — the Viper's bite does not always prove fatal as I have proven by experiments — animals have recovered from it without the aid of medicine — the Volatile Alkali is used in Ulcers externally & internally — 1st externally — cancers are said to have been cured with Vol. alk — Scrophulous Cancers have been treated with this medicine — this Alkali is often used in the form of pills made up with Candy Rosar — and Carb. Ammonia — my favorite formula is by the following — R Carb. Ammon. ʒi & Carb. ʒi Sugar ʒiij — aqua ʒviij R ft Mista —

[Faint, illegible handwriting covering the page]

Opium — This is the produce of the Papaver.
 Sammiplexum — its mode of preparation is detailed
 in different Books — we seldom receive it pure — it is
 often adulterated with impurities — ~~leontology~~

Dioscorides 1600 years ago obtained the
 substance called Meconium by boiling
 Poppy heads and insipiating — He obtained
 opium by insipiating the juice procured
 by incisions in the Poppy — the incisions
 are made at night and the juice col-
 lected in morn —

Mr Barr says the best mode of culti-
 -vating poppy is by planting the seeds 6
 inches apart in quadrangular areas of ground —
 when it comes up and is 6 inches high lay
 over the ground, dung — water continually till
 the pods form — then make your incisions at
 night and collect the juice in morn — make
 your incisions until 6 or 8 are made — then
 suffer the poppy to go to seed

Marcotica

Papaveraceæ —

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January 19th 1810.

Opium — when opium is applied to the eye, urethra, nose or any part devoid of cuticle it produces pain, heat and inflammation and diminishes the sensibility of the part — a simple solution has been used in gonorrhœa

Laudanum applied externally to the stomach and bowels has induced sleep, when it would not when taken internally — Dr Cullen says it may be applied in this way — Opium applied to one part relieves pain in another — an opium plaster applied to the temple has cured toothache — opium may be used in form of a poultice

Spt of Wine extracts more of the powers of opium than any thing else — Dr Wau says opium acts as a sedative externally more than internally — He says it is absorbed when externally applied — I think that opium externally applied is of the production of considerable effects — Mr Rottenhouse had a violent pain in the breast for 30 years and nothing relieved it but Laudanum externally applied — it always produced evensness — the Laudanum gave relief in one hour — when the cuticle is removed the effects of opium externally applied are as unequivocal as when taken internally — it has produced drowsiness and death — Stramonium acts in a similar way and it may be called, a first cousin of opium — it does much harm and is used in dreadful quantities — In what manner does opium act?

I believe it acts in most cases independent of any absorption, externally — the bodies, of frogs, lizards &c do absorb many substances — in many fishes the lymphatics do open on the skin — of Opium when taken internally — in the vital functions; it renders the pulse first quicker and more frequent & the heat is increased, afterwards the pulse sinks — the respiration is little affected except large doses be taken — when taken in very large doses, it kills. Physicians differ as to the operation of opium — it is an old opinion that opium is a stimulant to the system — many writers before the time of Dr Brown held the doctrine of the stimulant effects of Opium — Dr Crampton's Experiments — — — From experience I must say that the primary effects of Opium are to render the pulse more full and frequent —

[Faint, mostly illegible handwritten text, likely bleed-through from the reverse side of the page. The text appears to be organized into several paragraphs.]

January 22nd 1810 Stimulants

This medicine augments the heat of the body. I have taken a great deal of opium and it has always produced flushing of the face and heat in the palms of my hands. I have seen obtuseness of hearing produced by taking large doses of Opium — and I have seen small doses do the same thing — this shews the vast power of Opium and proves its stimulant powers — it produces a turgescence of blood in the brain — the Respiration is but little affected with small doses — I proceed to speak of ^{the effects of} Opium on the "Natural Functions" — it diminishes the appetite when taken in large doses — Dr Cullen says it diminishes secretion in all parts except of perspiration — but I think it does not lessen the secretion of bile — Opium has been used to allay the cravings of hunger in time of famine — Opium certainly impairs digestion and induces vomiting in many cases — one grain of good opium will do this in persons not accustomed to take it — Opium lessens the Intestinal evacuation, and induces costiveness — but in some cases this will not take place, as in torpor of the intestines — it has proved laxative in Colica Pictonum — very large doses often prove considerably purgative — I have seen this in Cataplexis — Opium is remarkable for producing a discharge of Saliva — this is universal — Is Opium a Diuretic? On this subject Physicians differ — it has been used in abdominal Dropsy — I know it is frequently diuretic — Dr Haller said that in him opium lessened the discharge of urine &c — in some persons opium produces an increased flow of Saliva —

but I never saw the latter effect produced —
Opium has been said to be an expectorant — I have
observed this myself —

The Perspiration is always increased by the use of Opium —
this takes place after the pulse rises — it produces an
itching on the skin — this may be prevented by taking a
bowl of Camomile tea — In some persons the
use of Opium has produced disagreeable eruptions &
boils on the skin — this was the case in the wife of Judge
Smith of Kenton — The effect of Opium on the Animal
Functions — it always produces hilarity and spright-
liness — it increases the venereal desire in all an-
-imals — and produces erection of the penis — after
hilarity and delirium of mind have passed, dullness
follows and sleep — diminution of muscular
^{motion} vertigo, tremors &c &c — Dr Crump says it
produces convulsions, but I do not agree with him in
this respect — the effects of opium on young children
are very remarkable — it produces wonderful hi-
-larity of mind —

Dr Cullen once thought
opium stimulant but
Dr Bard convinced him that it
was a sedative — he was
wrong —

January 18 1841

Glasgow

I have the pleasure to acknowledge the receipt of your letter of the 14th inst. in relation to the matter of the Glasgow and London Convention. I am sorry to hear that the Convention has not yet taken place, but I trust it will be held in due season. I am, Sir, very respectfully,
 Yours, &c.
 J. G. Thompson

Stimulants
January 23 1840

There are persons who have taken 3x Opium in one day. — When a Persian gets in a fit of anger he takes a piece of opium as big as his thumb and then drinks a quantity of vinegar — this produces extravagant laughter and finally death. — There is no doubt that Opium produces the same stimulating effects as wine, brandy &c. — They exert similar effects on animals — a woman took 36 grs of Opium & in eleven hours died — on opening her the stomach was much inflamed & corroded — the intestines were violently inflamed & there were in them some gangrenous spots — nothing extraordinary appeared in the brain. — I have now finished the subject of the Natural History of Opium — I would say a little of the Chemical properties of this medicine, but analysis at different times has found different results — it is somewhat bitter and astringent — the former resides in the gum the latter in the resin — there is a small quantity of feculent matter — the narcotic quality chiefly resides in the Resin — Of the use of Opium in Intermittent Fevers — this is by no means a new practice — Opium appears to be a good preparative for the Bark — Opium has been given an hour before an expectorant — opium with the effect of preventing it — I have seen this medicine increase delirium and fever even when given before the hot stage — when there is a determination to the brain, I do not think that Opium can be given with safety — Dr Stork says that opium lengthens the paroxysms and produces costiveness.

The first principle of a good government is to be just
 and fair to all its subjects. It should not be
 arbitrary in its decisions, but should be guided by
 the principles of equity and justice. The second
 principle is to be wise and prudent in its
 administration. It should not be rash or
 impetuous, but should be guided by the
 principles of reason and wisdom. The third
 principle is to be economical in its
 expenditure. It should not be wasteful or
 extravagant, but should be guided by the
 principles of frugality and economy. The fourth
 principle is to be brave and courageous in its
 actions. It should not be timid or cowardly,
 but should be guided by the principles of
 valor and courage. The fifth principle is to be
 merciful and compassionate in its treatment
 of its subjects. It should not be cruel or
 oppressive, but should be guided by the
 principles of mercy and compassion. The sixth
 principle is to be honest and truthful in its
 dealings. It should not be dishonest or
 deceitful, but should be guided by the
 principles of honesty and truthfulness. The seventh
 principle is to be patient and perseverant in its
 efforts. It should not be impatient or
 discouraged, but should be guided by the
 principles of patience and perseverance. The eighth
 principle is to be diligent and industrious in its
 work. It should not be lazy or negligent,
 but should be guided by the principles of
 diligence and industry. The ninth principle is to be
 temperate and self-controlled in its behavior.
 It should not be intemperate or self-indulgent,
 but should be guided by the principles of
 temperance and self-control. The tenth principle
 is to be virtuous and upright in its character.
 It should not be vicious or corrupt, but
 should be guided by the principles of virtue
 and uprightness.

In the hot climate, it is probable that Opium in the hot stage may not be injurious because there is a great determination to the skin - this as I told is the case with the Bark - Laudanum with a cup of coffee given about the time of an expected paroxysm is a very good remedy in many cases - the narcotic qualities of the opium are diminished, but its stimulant qualities increased by combination with coffee - Dover's powder has been much used, given an hour before the expected paroxysm - I have not made many trials of this medicine - I have never exhibited Opium with the view of preventing the paroxysms of Lethargic Intermittent - Opium is often combined with Bark - it is said that when opium is added to Bark, it takes less of the last medicine to cure an Intermittent - I think this combination very proper in those fevers which tend to Typhus - Hemiplegia is often an arthritic affection and Opium is one of the best remedies - in many cases this disease is induced by Intermittents - it may often be properly called an Intermittent Hemiplegia -

389 January 25th 1810

Of the use of Opium in Continued Fevers - Synochus
which is our Autumnal Remittent, & Typhus are
in the commencement diseases of high excitement.
In the beginning of these fevers, I believe Opium is
injurious, especially when given as largely as Dr Brown
directs - In all continued fevers, the cause is some
stimulating agent - Plague and Yellow Fever are
varieties of the same species - delirium is a symptom
of these fevers and is best relieved by the Lancing -
but there are some cases in which delirium is best
relieved by the use of Opium - Dr Sydenham says the
Opium should not be given until the 12th day of the fever -
But I think that if on the 3^d day after having used
evacuating medicines, if there be little fever, the
Opium may be used - Dr Campbell in his treatise
on Low Typhus Fever says that Opium produced
great effects - and where Opium was not taken, the
patient was troubled with delirium, wakefulness &c -
Opium combined with Camphor when used in
Typhus produces a great determination to the skin
℞ Opium gr 1¹/₂ Camphor gr XV ℞ of Bolus was
used - and if the symptoms were violent 20 or 25
drops of Laudanum were used into a few ℥
of Julep of Camphor of which I am to speak -
Opium is often good in preventing the want of sleep
preceding delirium - In delirium tending to Mania
Opium has been found good - In the tremors &
subultus tending to fever, Opium has been used
with advantage - Diarrhoea is often a symptom of

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many fevers, especially Typhus — here Opium
is good, but I would not wish you to keep the
bowels in a costive state — I have had frequent
opportunities of seeing the good effects of Opium in
Typhus fever — it raises the sinking pulse and
removes more than any other medicine the delirium
of declining Typhus and leaves the system much in-
vigorated — Opium is a medicine whose powers
soon wear away — but this should be prevented
if possible and the number & quantity of the doses
should be increased — I have often found this very
necessary — you all know that opium acts power-
fully in producing sweat — on this account I have
often been obliged to divert from the use of the med-
icine, tho' sometimes a slight diaphoresis is very
desirable — You have heard much of the use of Opium
in yellow fever — but I think it is not entitled to
great credit in this disease — It has been found to
increase the delirium, the pain in the back and
often failed in preventing vomiting & produced great
costiveness — the affection of the liver was increased by
the use of Opium — gr! produced this effect in many
cases — In convalescence from yellow fever I found
Opium to be very disagreeable to patients — I do
not assert that Opium was never of use in yellow fever —
I have practiced in this fever as much as any Physician
except 2 or 3 and I have seen but few cases in
which Opium was admissible — in the Plague
Opium may be useful, but I know little from
experience —

Of the line of business, in the Department of the Interior, the following are the principal ones:

1. -

The first of these is the Department of the Interior, which is the largest and most important of the Department.

The second is the Department of the Interior, which is the largest and most important of the Department.

The third is the Department of the Interior, which is the largest and most important of the Department.

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The eleventh is the Department of the Interior, which is the largest and most important of the Department.

The twelfth is the Department of the Interior, which is the largest and most important of the Department.

The thirteenth is the Department of the Interior, which is the largest and most important of the Department.

The fourteenth is the Department of the Interior, which is the largest and most important of the Department.

The fifteenth is the Department of the Interior, which is the largest and most important of the Department.

The sixteenth is the Department of the Interior, which is the largest and most important of the Department.

The seventeenth is the Department of the Interior, which is the largest and most important of the Department.

The eighteenth is the Department of the Interior, which is the largest and most important of the Department.

The nineteenth is the Department of the Interior, which is the largest and most important of the Department.

The twentieth is the Department of the Interior, which is the largest and most important of the Department.

Of the use of Opium, in Inflammatory Diseases,
also
of its Abuse

In inflammation of the eyes, such as attacks fine girls, lead water is used. Brandy in water is better. In cases of jaundice a gall stone often gives great pain in its passage; here Opium allays the pain & facilitates the passage of the stone. Bleeding is also used in this disease. Opium is often used in the suppurative state of Inflammation. It is said to allay the pain & promote suppuration. Pneumonic affections have been cured by Dr. Blister, low diet & and Opium perhaps would injure in the forming stage - but Dr. Keen says Opium combined with diuretics may be used in the commencement of the disease. Opium is certainly useful after the Inflammation is abated. In Pneumonia a repetition of bleeding is necessary. In the latter stage Opium combined with mucilagenious matters is an excellent medicine. Cullen says that when the difficulty of breathing is lessened Opium may be used. In the Peripneumonia crassa of old people, Opium is dangerous. Blister &c are much better. I have bled a man aged 75 in this disease 16 times with success. In Batrachal affection, the beginning of it is the best remedy - but when the inflammatory symptoms are removed, Opium is a good and the only remedy - but it is best used combined with some Antimonial to create a Diaphoresis. There is one particular preparation of Opium I will mention - it is the Mucilaginous Mixture

In Cough.

R. R. Opium Camphorata ℥i. Hu. autumnii ꝯth C. Q. arabic ℥i -
 Succ. Glyceriniza ℥i aqua bullienti ℥viij - M^{ft}. Mistura -
 Signa ℥ss occasionally when cough is troublesome -

Elixir Paregoric

R Gum opii
 Linae benzoin aa ℥i
 Gum Camphor ℥i
 Opt. vini ℥viij - digest for 3 days -
 near 2 grs of Opium in ℥i -

Dowers Powder

R Specacuanha
 G. Opium aa ℥i
 Sulph. satap - ℥i -
 M^{ft}. dose X grs -

Camphorata 3/5 gtt
* Trict. Opium $\frac{1}{2}$ Un. Antim. G. Bralin $\frac{1}{2}$ Ex
Glycerin $\frac{1}{2}$ Aqua bulliant $\frac{1}{2}$ viij. Soft Misture
close $\frac{1}{2}$ p occasionally - it relieves though directly -
* on Trict. Paregoricum - There are some inconveniences
in this medicine - some people get attached to it on
account of the Brandy it contains. This formula is not
universal for where there is sweating the Un. Antim.
should be omitted. -

~~Let~~ I make Elixir Paregoric by taking G. Opium
Glycer Benzoin $\frac{1}{2}$ Gum Camphor $\frac{1}{2}$ Spt.
Un. thij - to digest for 3 days - this differs from
the formula of the Dispensatory but I know from
experience that is the best method of preparing the
medicine — — —

look at page 325

Wine to Kill

Boil a quart of milk - when boiling add 1 or 2
gills of good red wine - let it stand a few
minutes till the curd begins to separate - then
lay a muslin rag or gauze over a bowl &
pour on and filter gradually - the filtered
liquor must be made agreeable with nutmeg
&c. —

The first of these is the phlegmatic or phlegmatic type of temperament. It is characterized by a slow and steady flow of the humors, and by a tendency to accumulate in the head and chest. The second is the sanguine or sanguine type, which is characterized by a rapid and lively flow of the humors, and by a tendency to accumulate in the liver and spleen. The third is the choleric or choleric type, which is characterized by a hot and dry flow of the humors, and by a tendency to accumulate in the stomach and intestines. The fourth is the melancholic or melancholic type, which is characterized by a cold and moist flow of the humors, and by a tendency to accumulate in the kidneys and bladder.

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Lind says Opium was very necessary in Dysentery -
 In my practice I have used Opium in every case of this
 disease that has come under my notice - the astringency
 of Opium is so little that it cannot injure - I know that
 it may be given in some cases in the commencement
 of Dysentery - this disease often depends on irritation
 and here Opium is the only remedy - I have mostly
 combined it with Opacacantha, nearly in the form
 of Dover's powder - In this disease Opium is useful in
 form of Injection -
 In a great majority of cases of Diarrhoea we use Opium -
Cholera is a disease in which Opium is absolutely useful -
 I have known a few drops of Sandarium save the life
 of a patient in this disease - Nature does sometimes
 cure Cholera, but very rarely - in violent cases, 3 or 4
 grs of Opium may be given in 24 hours - Of the use of
 Opium in Tetanus, I know but little from experience -
 Physicians differ much in the treatment of this disease -
 20 $\frac{1}{2}$ of Sandarium have been given in 24 hours in this
 disease - in another case a negro took 1700 grs. of
 Opium in 17 days, in Tetanus and got well - I
 more repose little confidence in Opium in this disease -
 Opium has been applied externally in Tetanus with great
 advantage - If Opium will cure Tetanus, it must be
 in large doses as 20 grs in a day - In Hydrophobia
 Opium has been used - the cause of Hydrophobia are
 certainly of a stimulating nature - all the cases I
 have seen, terminated in death - this is a most in-
 flammatory disease - Boerhaave says it must be
 treated ergo ad delirium - I have seen Hydrophobia
 from Hypteria - it was cured by Asafetida -

I have been thinking of you very much lately
 and wondering how you are getting on
 and how the weather is in your country
 I hope you are well and happy
 and that you are enjoying your life
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines
 I hope you will find them interesting
 and that you will write back soon
 I have been thinking of you very much lately
 and wondering how you are getting on
 and how the weather is in your country
 I hope you are well and happy
 and that you are enjoying your life
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines
 I hope you will find them interesting
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 I have been thinking of you very much lately
 and wondering how you are getting on
 and how the weather is in your country
 I hope you are well and happy
 and that you are enjoying your life
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines
 I hope you will find them interesting
 and that you will write back soon

The only thing I ever knew to occasion a patient to take water was Tobacco — Chorea Sancti Viti has been treated with Opium — Another differs as to the use of Opium in Epilepsy. This disease has been produced by simple debility — but there are are extremely rare — the disease generally depends on organic affection of the Brain — Epilepsy often depends on Plethora — Cullen says Opium will not prevent the fits of Epilepsy — all cases depending on Aura are said to be owing to nervous affections that here the Opium has been found good — this Aura is of a curious nature — patients describe it as being some body travelling over some part of the body — the Aura Epileptica is the same as the Aura arthritica — Opium is the most powerful remedy to prevent the return of this aura —

— January 30th 1810

Hysteria — in this disease Opium is often used with success — there are cases in which it must be long used and there are some where it does harm — we may give it internally or by Clyster —

Palpitation of the Heart often depends on an organic affection of this organ and when this is the case Opium can do but little good — there are cases of asthma in which Opium does good — ^{where} ~~these~~ this disease depends on turgescence of the Lungs Opium is not good — but in spasmodic & catarrhal asthma Opium is often used with advantage —
Arthura is often an arthritic affection —
look at top of page 329 —

larger doses of Laudanum —

The Sick Head ache is often of Gouty origin — and it is difficult to explain its nature — but certainly it is that large doses of Opium & coffee is a good remedy for it — it is a sad disease and is the companion of the finest women in society — I know little of Diabetes — but it is often of Gouty origin — Dover's powder often cures it — Opium has been used in Aphthalia — in the most violent cases, a few drops of Laudanum dropped in the eye have given relief — In Scrophula, Opium used in form of a wash has done good — Opium is useful in some Tropical diseases — here I am to keep its diuretic operation out of view — it has done good in Anasarca by creating great sweating — our medicine is well adapted to Anasarca from cold —

— Jan'y 29th 1810

In some cases of Ischuria, the use of Opium has been found very advantageous — In cases of difficult & painful menstruation Opium is indispensable — it is used in the form of Dover's powder — in this disease Opium has been combined with Camphor —

Small Pox — in this disease Opium has been long used — during the Inflammatory stage Opium has been found hurtful except in case of convulsions coming on — Dr Cullen says it is good in the suppurative stage — In the Confluent Small Pox it is frequently used — after the Inflammatory stage has subsided Opium may be given, 2 or 3 times a day — In the Secondary fever succeeding small Pox, some have used Opium &c —

In Melaetes - Sydenham was too fond of using Opium in
 this disease - but it is sometimes very necessary -
 In the hoarseness succeeding measles Opium is useful -
Of Opium in Scarlatina I have nothing to say -
 I have not much to say of Opium in Hemorrhages - it is less
 adapted to the active than passive hemorrhages - in some
 cases dependent on irritation Opium is very necessary -
 In the Menorrhagia Dr Cullen has not found Opium of service -
 Opium combined with Ipecacuanha is one of our best remedies
 in Uterine Hemorrhages - I give Opium gr 1 Ipecac 2 grs - 2 or 3
 times a day - the patient receives much advantage if there
 is some perspiration excited and a little nausea - in
 some cases of hemorrhage threatening abortion we often use
 Opium combined with Ipecacuanha - I believe that Opium
 is not used internally in Hemorrhoids - Opium injures
 in this disease by creating costiveness - Opium externally ap-
 -plied has been used in Piles - I have used it in form of
 Cataplasm - Epistaxis is frequently an active hem-
 -orrhage - I do not recollect to have given Opium in this
 disease - when I used Lead I combined Opium with it -
 the management of Hemoptysis is very delicate - I believe
 all stimulating medicines must be hurtful - cool air,
 bleeding, blisters are necessary - but I have used the Brown
 Mixture in this disease without any bad effects -
The Phthisis Pulmonalis is a disease in which we can do
 little - I cannot manage it at all without Opium - I use
 the Brown Mixture - Opium is used in Dysentery with
 great advantage - Dr Cullen endorses its use in this disease -
 Dr Heberden used it - Sydenham trusted the cure of this disease
 almost entirely to Opium - he gave 25 drops every 8 hours
 he found this plan very useful -
 Look at top of page 317 -

Dovers powder

R^o Pulv. Specac. et opii aa ʒi - Sulph. Potass. ʒi M^o pulv

Signi XV grs every 3 hours -

January 26th 1810

In the Asthma of old people, opium is given with great disadvantage in many cases - but combined with the exacuauba it sometimes does good - In nephritis patients will bear very large quantities of opium - it is often given without any regard to drawing away blood - Rheumatism is divided into acute & chronic - the former is treated best with V.S. blisters, canes &c. - but where Rheumatism assumes a periodical form we cannot cure with the antiphlogistic plan - it is useful in acute Rheumatism to excite complete sweating with the Pulvis Doveri - ^{or Pulv. Thebaic. Complicatus} - R^x Pul. Thebaic. ℥.ij. aa ℥.i Sulp Potas ℥.i ℥.ss x grs of this contain ℥.i opium - dose 15 grs every 3 hours till sweating is excited - the Viti Part. or Sulp Potas add nothing to its virtues - I have used in its place ℥.i anobis - perhaps Nitre would be better in some cases - I would not advise you to adhere to one uniform formula - I differ from it often - Dr. Cullen says the powder is to be given in the morning - patients are to be laid in woollen - this is an important direction - I always direct blankets to be used - the powder is best taken by making it into a bolus with O. grisea - this it is best taken - no drink should be taken until sweating is induced - drink will induce puking - when the sweat breaks out small quantities of weak tea should be taken - if the sweat does not affect the limbs, more clothes should be laid on -

[Faint, mostly illegible handwriting in a cursive script, likely from an 18th-century manuscript. The text appears to be a letter or a journal entry, discussing various topics in a formal yet personal tone.]

I have used 3i in 24 hrs -

or boiled bricks may be used for that purpose —
 whey made of wine & milk may be drank
 during the sweating — patients should not leave
 the room for a day after and they should avoid
 cold — When Dover powder fails to excite sweating
 it always increases the pain of Rheumatism —
 but sweating greatly relieves — and by it we
 can spare a great deal of blood — When Treac-
 -um is added to large quantities of Opium it
 will not destroy life in many cases — It
 destroys the narcotic qualities of Opium —
 The Dover powder of the Dispensatory has been
 accused of having too many ingredients in it — A
 man who prescribed a great many medicines to-
 gether, was asked by his patients why he did so,
 you fool said he, I do it to let the disorder choose
 which it likes best — Gout is often an inflammatory
 fever and is not safely treated with opium — the
Gout of the Stomach is treated with Gout opium with
 advantage in many cases — Opium may be
 carried to a great extent — I have given 400 grs
 in 8 hours — Besides opium, Brand, Ether and
 Ginger are used — with respect to the two first
 I would say to you Cavendum — the Ginger may
 be safely used — Stimulants of this kind must be
 used in gout of the Stomach — Sir J. Banks used
 to boil the Ginger in milk — but I have found
 it ineffectual — 100 drops of Laudanum with
 a little Ginger will answer the place of much
 look at top of page 321.

I have known Opium to be of great use in Asthma -

Portusis when attended with fever is best relieved by bleeding - but when there is little or no fever Opium is the best remedy - as a palliative the Broom Mixture may be used -

Pyrosis - of this I cannot say much - it is said that this disease is increased by smoked meats but mitigated by fresh meats - Opium has been used - The late pyrosis is similar to Dyspepsia - & Cumm says it is only to be relieved by Opium - I have not had much experience in this disease -

Colic - in this disease Opium is used - but not very safe without previous bleeding - when there is much fever the patient should always be bled -

Colica Pectorum is sometimes treated with Opium - in this disease Opium must be given in large doses - 96 grs have been given in 3 days without producing sleep -

Encarcerated Hernia has been treated with Opium - it relaxes the stricture and makes the reduction more easy -

Mania has been treated with Opium - some striking instances of the use of Opium in this disease are related by Dr Young - I have used it largely but never found a cure from it - Opium must be a precarious remedy in Mania - it might do in timed Maniacs - in the Mania of puerperal women Opium has been used with advantage - Mania from Brandy has often been cured by the use of Opium - I generally am in the habit of diminishing the quantity of Brandy & give Opium -

Gangrene - in some cases of this, Opium has been used
with success* - Pott has used it in Gangrene of the
Toes -

Ulcers of every kind have been treated successfully
with Opium - In Cancers, I can say but little
of the use of Opium - but some writers say it is
a most injurious medicine in this disease - young
Opium appears to increase irritation in Cancers -
and it is bad remedy for Cancers -

Syphilis has never been cured with Opium alone -
I never knew it do good but where Mercury had
been before taken -

In Gonorrhoea, opiate & injections are used - but
I use it less than formerly in this disease - In
Chordee Opium must be used but the dose must
be large - I have always recommended Opium
to check salivation from Mercury - I advise
the patient to use a gargle to wash his mouth -
½ Laudanum to 1 pint Aqua milk warm -
but I mostly give Opium internally; 3 grs of
the solid Opium every night - it subdues a
salivation very soon - Sometimes I give a
powder similar to Dover's powder - I first men-
tioned this mode of preventing the bad effect of
salivation - I condemn the practice of cold
water in this disease - Opium is the first & med-
ecine of which I treat under Narcotics;

* Opium could never have cured gangrene.
I will recollect this in your case and
notion in the following case.

I have been thinking of you very much lately
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines.
 I have been thinking of you very much lately
 and wondering how you are getting on.
 I hope you are well and happy.
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 but I have managed to find some time
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 I have been thinking of you very much lately
 and wondering how you are getting on.
 I hope you are well and happy.
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines.

Nyosciamus Niger - this article I think is not a native of America - but I have seen it very plentifully in the United States - I have seen it in Virginia where they call it "Devil's Cabbage" - it is a powerful stimulus - a small quantity of this medicine has produced violent Colic - it affects the eyes, in many cases, considerably - there is a considerable effect produced by the vapour of Nettlebane - Dr Boerhaave was rendered piddy in making an infusion of this medicine - It appears much allied to Opium - Nettlebane generally produces laxative effects - it often proves very diuretic - it is certainly a most powerful stimulus - a single pill has produced weakness of vision and other bad effects - I have frequently prescribed it as an Anodyne in the place of Opium and I believe it is often as safe as the latter medicine in many cases - Convulsions have been cured by Nettlebane in large doses - it has been used in Mania, Epilepsy &c - ʒi is the medium dose to begin with, of this medicine - Dr Fothergill has cured cases of Insanity by this medicine in doses of ʒj - in cases of madness from Intermittent, an infusion of Nettlebane has cured -

In Hemoptysis, Nettlebane is often used with advantage - in Puerperal Mania, Fothergill succeeded with Nettlebane in large doses - in this disease the narcotics are the best medicines - it creates delirium more readily than Opium, as some say -

Gleanings are more than

*it's a great lie, they never eat the leaves or any
other part of it in

Henbane has been used in Lic Dolorem —
 it has also been used in Pertussis or Whooping Cough
 in the treatment of Chordee it may be useful in
 the form of extract — 7 grs have been given in a
 day without injury — it may be given largely
 when gradually increased — 40 grs have been given
 in one day but this produced bad effects — the
 Henbane should be prepared every year as the
 it is mostly injured by keeping —

February 1st 1810

I know no two medicines more allied than Henbane
 and opium —

Datura Stramonium is a very common plant
 called Jamestown weed &c. this an annual plant
 and is distributed over all parts of our country — some
 cattle & goats eat it, sheep eat the seeds, cows eat the leaves,
 the Linnaean says they do not partake of it — Hogs are
 rendered drunk by eating it —
 The extract of stramonium is said by some to be sedative,
 but I deny this assertion — it is used by many to exhilar-
 ate the spirits when opium cannot be obtained —
 I believe it is a greater stimulant than opium —
 the virtues of this plant are related by the late Cooper —
 it sensibly affects the pulse — one grain of the powdered
 leaves raised a pulse from 72 to 80 in a minute — 6 grs
 were given to a man with a pulse 80th — in 6 minutes
 it was 84 — it created dullness of mind — sleeping —
 headache — This article has sometimes produced
 a salivation — this vegetable has produced Tetanus
 and Hydrophobia —

It was used by soldiers, once by mistake for Lamb's
quarters - it produced Tetanus - The seed being
swallowed by some persons occasioned Hydrophobia -
a case of this kind is related by Dr De Witt in the Med-
ical Depository of New York -

The disease in which Stramonium is used are
various - it has been given in Mania, Epilepsy &c -
Greding employed it in dose of 2 grs in Mania, but
he never cured with this medicine - The reason why
this medicine has failed when the extract was used, de-
pended on the slow manner in which it was
prepared - The tincture of the seeds of Stramonium
are said to be better than Opium as an Anodyne -
and to have cured all affections of the mind - Mr
Berquin speaks highly of the Px. Stramonium and
says that he has cured Maniacs with it - he says
it is equally good in Melancholia - when
the pupil of the eye became dilated he ceased its use -
he always applied a seton to the neck when he used
the medicine - I have followed this practice with
some success - Dr Archer of Maryland has used
this medicine with great benefit in Epilepsy -
he gave 2 grs of the powdered ^{seeds} ~~leaves~~, in form of a pill
every 4 hours, which was a bold practice - he says
low diet and small bleedings should be attended to -
then he says it mitigates the fits of Epilepsy - he
says the best seeds are the brown ones - I have
had much experience with this medicine, and I must
differ from Dr Archer - I have used it in Mania &
Epilepsy - I will not assert that it was always
beneficial - but I must say it has cured some
patients and often done good -

+ Dr. P. Lyne has found it
very beneficial in Cancer —

with 33 1/2 grs of Stramonium

I had a patient who took 1 gr a day - afterward
lost some blood - in a few days increased the stramonium
- monium 2 grs a day - in a month the dose was
increased to 18 grs - and afterward 30 grs a day -
which perfectly cured him and he was discharged -
I have seen it produce very bad effects on the system -
I have used the *Stramonium* in Mania with
great advantage - I cured a woman who had
been affected with mania 6 years - she used
small doses at first, increased one grain every
night and at last took 32 grs a day - a great
dilatation of the pupil was occasioned and paralysis
of the eyelid of the same eye which was removed by a
blister to the temple - *Stramonium* promises
to be useful in mania from intoxication - I have
not used it in this disease but I have heard of it being
thus employed with success -

This medicine has been employed in Dropsy - some
cases are related in the Philad Med & Phys. Journal -
I have used it in old sores from Bubo -
+ *Stramonium* has been used in Scrophulous Cancer -
I believe not internally - the bruised seeds
boiled in milk and applied to local inflammation
of Gout are said to be good, but I think it is a
dangerous remedy - an ointment has been
made from the plant - it has been used in Itching
but with great disadvantage to patients in many
cases - when *Stramonium* ointment is applied to
the Area of Blisters it is very injurious and has pro-
duced very deleterious effects - The Extract as I
make it is as follows - The adult leaves are
pressed till the juice is forced out - this is

Atropa belladonna is a strong
 Stimulant - produces dilated pupil
 thirst &c. —

gradually 341
evaporated, ~~the~~ ^{over} by heat of fire ~~in~~ the sun —
then it is put away carefully —
The dose of this with me is 1 or 2 gr at first —
in 2 or 3 days I increase 2 or 3 gr and gradually
increase to 30 gr in many cases, often to 15 or 20 —
Sometimes we must leave off the medicine for a
few days — it often produces great dilation of
the pupil and sometimes a partial paralysis —
it has produced in Maniacal patients, ~~brilliant~~
eruption &c this is favorable —

Datura ferof grows in West Indies — this is said to
form an ingredient of a secret poison — there are
said to give it to persons they want to rob and
women give it to their husbands when they want
to commit acts not fantastical — this is allied
to the other species — it is very stimulant

February 2^d 1816

Solanum or Nightshade is a narcotic —
the common Solanum nigrum grows plen-
tifully in Virginia — it produces purgative
effects in small doses; taken largely it pukes —
it belongs to the family of Stramonium —

Solanum Dulcamara is much used in
this city by the French in syphilitic pains — it
has been known to salivate —

Nicotiana or Tobacco — this is a narcotic —
and is too well known to all of you — the
entire property, emetic & diuretic effects
are obvious — it is called Nicotiana in honor
of Jno. Nicot who first brought it to France

The witty sayings of King James 1st

+ there's no wit in it, as it's here written; however;
there might have been in his expression.

+ p^h grasp you goise

~~In America after U.S.~~
~~R Nitro Dy - Zi~~
~~R~~

Dr. Drake: saturated R Digitalis is used
10 or 15 drops at dose — it has lost its celebrity
as a medicine — after the bleeding in some
cases of Dysmenorrhoea R Nitro is used in full
dose

R Nitro Dy - Zi

R Digitalis 60 to 80 drops

after 3 viij - dose 3 p 3 or 4 times
a day -

+ it is not licuta -

it is a plant peculiar to America — and was formerly held in great regard as a sacred vegetable and was engrafted into the religious ceremonies of the Indians — King James 1st had a great aversion to Tobacco and he said it was the very essence of hell and that if he were to invite the Devil to dine with him, he would give him three dishes 1st A pig which he never ate 2

3 A tobacco pipe to smoke for the Devil's digestion —

Tobacco was first used as an Emetic in New England — In Colic with Intusussception, injections of Tobacco have done good but it often fails — I might speak of Tobacco injections in Hernia incarcerata — it has enabled surgeons to reduce the Hernia without an operation — it is necessary to be nice in the quantity of the vegetable — ʒi or ʒi is generally used — The infusion has been used to resuscitate persons apparently dead from drowning & hanging —

Digitalis or fox glove is certainly a stimulant and I first proved the my class in 1796-7 — it is also a narcotic — it was not known as a stimulant until I declared it such — it often injures the system in Dropsy by its stimulant power —

Umbelliferous plants — the only one of these which

I am to speak of is the Conium Maculatum, or ma Hemlock — I believe it is not a native

+ of America — it grows in many places of our country — this plant is not so easily known as some think — it looks like Scirpus at the first sight —

dos of *Ly Cicuta* gr 1 to 100

Remlock Bath

+ the top of the seeds & turn of the leaves
 boiled in 8 galls of water to 6 - then add
 several gallons of cold water

You will distinguish Hemlock by its spotted
 stalk and its disagreeable smell when bruised -
 by the open under surface of the leaf - it
 kills birds and some animals - but goats
 eat it, and tobacco without bad effects - the
 fact of the goat eating hemlock has been long
 known - this is supposed to be the plant with
 which the Greeks destroyed some valuable cit-
 izens - it kills without much pain - this
 vegetable contains vitriolated Tartar - &
 Darnum places this vegetable among Incitant -
 I think it less stimulant than Opium, Stra-
 monium &c - large doses produce anxiety
 head ache, vertigo, aphonia, madness, delirium
 convulsions, blindness, salivation, discharge of
 urine - loose stools &c - it inflames the in-
 testines of animals as we are told - it is very
 certain that Hemlock often salivates - I have seen
 this effect - this article has excited the attention of
 Physicians in the cure of Cancer & Schirrus for
 a long time - some Physicians say it is hurtful -
 But in sordid venereal ulcers it is supposed by many
 to be very advantageous - the Hemlock has been
 used in form of Bath in Scotland & a decoction
 of Hemlock has been used by means of a syringe in
Cancer of the Rectum - I have used it in Cancer
 of the Rectum in form of pill and Enema &
 it always lessened the pain of the disease -
Ulcers near the Ankle joint are cured by Hemlock
 in many cases in form of Tomentation -
 Mr Whately an English Surgeon uses the Hemlock
 in old ulcers - I have seen Hemlock used in

Leprosy and with manifest relief - the medicine was taken internally - it always occasioned a great discharge of cuticular ~~and~~ scales - this is not the only case of Leprosy treated with Wormwood. There are many cases related by writers - this medicine has been used in Tic. Dolorum - I have seen it do good in this disease - several writers have used it in Syphilis and the success succeeding to Buboes - Dr Butler says that Gonorrhoea may be cured by \times gr of Wormwood - Dr Withering has used this medicine in Chronic Rheumatism - I have used it in this disease and it certainly gives relief - In Scrophula, this medicine has been greatly used and I have employed it with manifest advantage - In the Gangrene of old ~~children~~ ^{people}, Wormwood has been used - I have seen it do good in a Gangrenous affection of the hand - ^{prepare the medicine as follows -}

Gather the leaves of Wormwood in June, pick off the little leaves and throw away the stalk - dry the leaves in a gradual heat without light - then powder it and keep it in close vessels - from \times to $\times v$ gr is a dose and may be gradually increased -

Wormwood is best that has grown in dry soil, exposed to light - greenest leaves are best

349 Feb 3rd 1810

Canium Maculatum — inhaling an infusion of this medicine mixed with ether has been used in Consumption — this medicine has been used in Jaundice — In Pectus, our medicine has done much good — Dr Butler has written on its great importance in this disease — he directs an infusion of it — The manner of preparing Hemlocks has influenced the virtue of this medicine —

Sub. Narcotic — By the Lincæan ced and article which are partially narcotic — Laurus Cerasus is the Prunus Laurus Cerasus of Linnaeus — it is not the Laurel of our country — Cullen calls it a most powerful sedative — I have always supposed it to be a powerful stimulant — It has been spoken of at large by Dr Kelly in his inaugural dissertation — this article has been little employed in practice, because it is of all stimulants, a most powerful one —

Camphor — Dr Cullen calls this a sedative — but I believe it to be a stimulant — it is an article of very great importance — the reason why it is not much employed is because physicians are not quite satisfied of its effects — it is the produce of different shrubs — it is most procured from the Laurus Camphora of Linnaeus — but it has been obtained from spice wood, Sassafras &c camphor is considered as a vegetable principle — this Laurus Camphora grows in Japan, Cape of Good Hope &c. — in Japan it grows so large that two men can hardly embrace its circumference —

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Camphor obtained from the *Laurel* Camphor —
the tree is cut into blocks & split open — covered
pure camphor is seen which is removed & called
Head Camphor — then I scrape away more camphor
but this has some fibres of wood in it — called
Belly Camphor — the 3^d kind contains most of the
wood & is called Foot camphor —

- Camphor-Julep -

R Gum Camphor ℥ij - Olib. G. Myrrh ℥i - Sacch. alb. ℥i -
Olib. G. Arab. ℥ij - Aqua Myrr. ℥i - M. ft. Julep.

I would prefer a Julep rather than a Syce or Pileus

R Gum Camphor ℥i Olib. G. Myrrh ℥i Sacch. alb. ℥i
Olib. G. Arab. ℥ij Aqua Myrr. ℥i M. ft. Julep - Dose - Table Spoonful every 2 hours

the Inhabitants of Japan obtain the Camphor by scraping the
 Laurus Camphora and they have 3 qualities - the Head
Camphor is superior quality - the Belly Camphor is that
 of the next quality - the Foot Camphor is that of the most
 inferior kind -

Camphor often occasions nausea and has a bitter taste -
 it is brought to our country in masses with a greasy feel - it
 has a strong aromatic smell & swims on the surface of
 water - and if exposed, readily evaporates - Camphor
 enclosed in glases hermetically sealed lost nothing of its
 weight - but if kept in vessels not tight & evaporates -
 Camphor is soluble in twice its weight of water when
 water is added to a solution of Camphor in spirit wine, it
 is precipitated in a solid form - it is partly soluble
 in water - it is soluble in oils - Camphor is said
 to be rapidly soluble in water impregnated with Carb.
 Acid Gas - I believe the best of ^{modern} preserving Camphor is
 in form of a Julep - The Camphor is to be rubbed in a
 mortar with G. Myrrh and Sugar - then the water is
 to be added - R Gum Camphor Zips - Gum Myrrh Zi
 Aqua Zingib soft Julep - I have often prescribed
 this in Penn Hospital - Sugar Zi - G. Arabic Zips -
 Camphoric Acid unites readily with Alkalies & Earths -
 Camphor is acknowledged by chemists to be a peculiar
 substance - they call it Camphorating principle - La
 Grange says it is a volatile oil combined by Carbon -
 Camphor does not destroy Moths - though it kills most
 insects - it has a great effect on flies - it destroys
 insects without destroying their organization - it does
 not injure the colour of their wings - it does not change
 the colour of feathers - the method I employ is to put
 them into a glass vessel with a small quantity of Camphor

and covering the vessel with fine paper, perforated —
 a very small quantity affects Birds — but 2 grs will
 not kill a sheep — on examining the bodies of animals
 killed with Camphor — the stomach was found inflamed,
 so was the Brain — there was a great secretion of Bile —
 Camphor introduced into the Rectum of animals often
 induced death as perfectly as when taken by the mouth —
 what I have said, clearly proves Camphor to be an In-
 -citant and stimulant of the active power of Camphor ap-
 -pear to depend on the nature of this article — I think
 it acts chiefly on the nervous system — but I believe a
 portion is sometimes absorbed into the Circulation —
 the smell of Camphor has been perceived in the perspi-
 ration of patients — Camphor externally applied to
 frogs entered the system by absorption — Mews applied
 powdered Camphor to the skin of frogs, and found the
 smell of this article in the abdomen — bowels &c —
 Plant put into a solution of Camphor vegetate more
 than plants put into water alone — You will find
 this a pleasing experiment — You should have the
 Camphor in a precise dose, for a quantity too large kills
 the plant very soon —

Feb 6 1810

Of the effects of Camphor on the Human Body —
 a large camphor dose of camphor produced delirium
 frequency of pulse, vertigo, paleness of the countenance
 &c — some physicians say that Camphor reduces
 the frequency of the pulse and lessens the heat of
 the body — it has produced convulsions, &c —
 it produces costiveness when taken largely —
 the most of the ancients thought Camphor a sedative —

* what nonsense -

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Hoffman asserts the sedative quality of Camphor —
The notion that Camphor is a refrigerant has been
advocated by many — yet some of these persons
are compelled to say that Camphor often produces
stimulating effects — Dr Cullen gave $\frac{zjss$ of Cam-
phor to a patient without increase of pulse —
I have seen cases in which Camphor certainly exerted
stimulating effects on the system — Dr Ainslie says
that Camphor allays inflammation — Dr Wright thinks
it a heating medicine — Of the use of Camphor
in diseases — having assumed it as a fact that
Camphor is a stimulant, I shall speak of In-
flammatory affections — I should suppose
that many Intermittents tending to the Typhoid
form, might be cured by Camphor — I would
advise you to give a small ^{or xjss} dose before the
paroxysms — I have never employed it in these
fevers — Camphor has been employed in those fevers
called Nervous — Camphor out of the body is anti-
septic — this property of Camphor has doubtless led
many to use it in fevers called Putrid — Camphor
joined with Opium is an excellent sudorific — it
is generally given in the evening — Some advise
Camphor to be combined with Snake root &c —
Camphor has been celebrated in Gangrenous af-
fections — It has been preferred to all other med-
icines in Gangrene — it has been used internally
and at the same time applied to the mortified
parts — it must not be used it is said in Gan-
grene with fever — I suppose that the virtues of
Camphor do not depend on its Antiseptic virtues
in curing Gangrene — it has been praised for its

* This has nothing to do with the proper business —
i. What advantage from such references,
as we have all along — vulgar —

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efficacy in old ulcers — I think Camphor is
peculiarly adapted to Gangrene of Typhus —
for the gangrene here is more dependent on de-
-bility than any thing else — in some parts
of the United States a Cataplasm of Sassafras
Bark has cured Gangrene — I told you that
Camphor is procured from Camphor Sassafras —
and this practice may be very good — Camphor
has been used in Confluent small pox — it has
been supposed to act specifically on the variolous
matter — but I fear that the experiments on this
point have not been judiciously conducted —
The Swedes pursue the practice of laying cloths
wet with Camphor on surface of Confluent small
pox — Dr Jenner has said that the adom of bruin
stone has prevented vaccine matter from af-
-fecting patients — I think I have seen this in
one case — but it was where sulphur was used
for the itch and perhaps this disease prevented the
vaccine matter from acting — Camphor has
been employed in general and local Inflammations —
Dr Hoffman says he has cured Inflammatory Dis-
-eases with Camphor — in fever the Camphor is
given during remissions — In Puerperal Fever large
doses of Camphor have been given with success — I
think it has often succeeded — but this fever is
often Inflammatory and demands bleeding — I have
often drawn blood in this disease and thus cured
my patients — here Camphor would have done harm —
This is a very interesting disease and little knowledge
of it can be gained from books — It is mostly Inflam-
-matory in our country —

Camphor has been used in Rheumatism in - D Cullen says it removes Rheumatic pains and the pains of Gout - it sometimes translates the pain of Gout from one part to another - In acute Rheumatism, it frequently happens that Camphor translates the pain - much mischief is daily done by Camphorated liniments externally applied - I saw one in which death was produced and I believe it only depended on a translation of pain from the hip to the brain - Camphor has translated disease from the arm to the tongue and thus I have seen paralysis of the tongue -

February 8th 1810

The powers of Camphor in repelling the pain of Gout are truly remarkable - when applied to the feet, it throws the pain on the stomach - applied to the latter it throws it back to the feet - In Rheumatism the application of Camphor has done good - a solution of Camphor in hot water has relieved the pains of Rheumatic Tooth ache - In Gonorrhea the Camphor has done good - also in Chordee - The Bronchocele or Goitre this medicine has been used - this disease prevails in the Hunter State and arises from the same causes as Intermittents - The Camphorated Liniment is applied to the swelling - Camphor has been used in Spasmodic diseases as Epilepsy &c - In Chorea Sacra Santi Viti; Camphor has been successfully employed - D Cullen has used this medicine in Chorea with good effects - I do not know that Camphor has been much employed in Tetanus - In Spasmodic affection of the Respiratory

The first of these is the fact that the
 country is a very fertile one, and
 the soil is very rich. The second
 is that the climate is very healthy,
 and the air is very pure. The third
 is that the water is very soft, and
 the food is very good. The fourth
 is that the people are very kind,
 and the manners are very polite.
 The fifth is that the government is
 very wise, and the laws are very
 just. The sixth is that the
 religion is very pure, and the
 morals are very good. The seventh
 is that the arts and sciences are
 very advanced, and the literature
 is very excellent. The eighth is
 that the commerce is very active,
 and the trade is very extensive.
 The ninth is that the military
 power is very strong, and the
 navy is very powerful. The tenth
 is that the country is very large,
 and the population is very numerous.
 The eleventh is that the country
 is very beautiful, and the scenery
 is very picturesque. The twelfth
 is that the country is very healthy,
 and the air is very pure. The
 thirteenth is that the water is
 very soft, and the food is very
 good. The fourteenth is that the
 people are very kind, and the
 manners are very polite. The
 fifteenth is that the government
 is very wise, and the laws are
 very just. The sixteenth is that
 the religion is very pure, and the
 morals are very good. The
 seventeenth is that the arts and
 sciences are very advanced, and
 the literature is very excellent.
 The eighteenth is that the
 commerce is very active, and the
 trade is very extensive. The
 nineteenth is that the military
 power is very strong, and the
 navy is very powerful. The
 twentieth is that the country is
 very large, and the population
 is very numerous.

Camphor has been used with great advantage in some Dropsical affections, as Ascites, Camphor has been used. In case of Painful Menstruation, Camphor is used with advantage. Camphor has been used in Mania - in the disease called Nympho Mania - I have seen the last disease cured by great depletion - there is mostly a morbid affection of the Uterus - Camphor is said to have cured many Maniacal Patients - Delirium is often treated with Camphor - I have known it succeed after bleeding had failed to do good - Cullen speaks the powers of Camphor in Mania - it must be used in large doses - perhaps the reason why this medicine has so often failed was because it was not given in dose sufficiently large - I have frequently given it in Mania and very largely and I have succeeded in curing the patients when any thing else had failed - I gave about ʒiss in 4 day for some time and he gradually regained his reason - Camphor dissolved in Gum Arabic has been used in Burns and I believe it has done much good - it must act much like the Spt. Turpentine - Camphor combined with Drastic purgatives lessens the acrimony of the latter - Camphor combined with opium is very good in old ulcers - it is to be applied externally - Camphor joined with Peruvian Bark is more efficacious than Camphor alone in curing Gangrene and Fevers - Camphor when combined with other ^{medicines} renders the latter more mild in its operations - by combining them together the Camphor takes up a portion of the acid from the Mercury - Camphor is said by some to increase the powers of Mercury in Herpetic affections, old Syphilitic affections &c -

In obstinate ulcers of the Scrotum &c
 ℞ Unguent. mercuriale ℥i -
 Gum Camphor^{3j} solut. in Spt. Vain^{3j} qf
 M ft. ung. rub on the parts -

Dr Camphor added to $\frac{1}{2}$ of Mercurial ointment
 is said to increase the virtues of the latter medicine —
 I think that Mercury should always salivate in order
 to effect a perfect cure of Syphilis — I have often
 used the combination of Camphor and Mercurial
ointment, and I believe the power of the latter was
 increased, but the salivating property was not less-
 ened — I have used this ointment in an old
ulcer of the Scrotum partaking of Venerical taint —
 I used this ointment and cured my patient after
 many other medicines had failed — The sore was
 very large and I cured it completely — Dr Cullen
 of the Navy has used this ointment in such cases
 with great success — I generally add to $\frac{1}{2}$ of
 Camphor to $\frac{1}{2}$ of Mercurial ointment —
Camphor is said to mitigate the disagreeable
 effects of a large dose of Iguills — Camphor is
 said to lessen or destroy the effects of Ant. Can-
tharides — Thus we may compare combining the
Camphor and Cantharides and give it with
 safety — Camphor applied to the surface on
 which a blister is to be applied, is said to pre-
 vent Strangury — but some say that Camphor
 induces Strangury — Dr Cullen says he never saw
 it do harm in the urinary organs — I have
 never seen such inconveniences from it — I
 believe on the whole that the Anti Strangurion ef-
 fects of Camphor are not to be depended on —
 when I find Strangury come on I apply warm wa-
 ter in Bladder to the Perine, sometimes I give O-
pin and if the symptoms be violent I apply
mustard poultices to the ankles & with success —
Camphor has been used in Retention of Urine —

+ found in a bag near the Whillocks -

O dark brown color - the best kept
farinaceous feed & is up of strong odor -

+ also resin soluble in ether & alcohol &
gelatin -

O more so than opium -

A siliceous like mass in flasks is
obtained from the Pale Petrol the
Pole Cat -

The dose of Camphor should be at first in ~~small~~ small quantities - I call them small when they are only 5 or 6 gr - they are large when they amount to 3i or ʒij in 24 hours - The Pareira China as I told you contains a good deal of Camphor - Camphor is slowly soluble in the stomach and ought not to be used in substance but in the form of the Julep I have mentioned -

- Feby. 9th 1810 -

Moschus or Musk - This is the product of an animal most common in Asia, Siberia. - the substance musk is derived only from the male sex - it has a fragrant smell - its smell is so strong when fresh as to draw blood from the nose of such as inhale it - Musk being an expensive drug it has been much adulterated - vessels in which musk has been placed retain the smell a long time - musk is the most odiferous substance in nature - It is inflammable and to the touch communicates a greasy sensation - Musk contains a saline matter the qualities of which are not certainly ascertained - I consider Musk as a Stimulant - I am not able to say much of its effects on the pulse, but it increases its frequency - it raises the spirits, creates sweat & finally sleep - as far as I know this medicine was first recommended in Rheumatic Colic by Sir John Pringle - in Gout of the Stomach musk has been said to do great good - ʒi of Musk would be called a large dose - 5 gr a small dose - In Tetanus, this medicine has been much used - it allays the convulsive spasms of this disease -

Artificial Musk - by Margraaf-
 B Mitric Acid Ziij' Al Scherani
 Rect. Zij' digest + a yellow matter in
 filtered wash it repeatedly in cold & then
 wash it with water to remove acidity this is used
 in Centaspe entus is

B March. Artificial ~~giz~~ Xij' Xij'
 Q. Arabic Zijij'
 Agave - Zijij' - Sugar coll. black
these are used in wine

+ from small glands near the bladder ~
 Anus

+ made of Castor Zi
 spirit thi -
 M -
 the castor is chiefly removed

In many Convulsive diseases, Musk has been used with advantage — The use of Musk in Hydrophobia is derived from Chinese — They have the medicine in very great purity — They combined it with Cinnamon — I cannot say much respecting the use of Musk in Hydrophobia — 4 grs of Musk, we are told, cured Intestate ~~Intestine~~ Asthma — In Colica Pictonum, the Musk has been used with advantage in combination with Opium — Musk has been much used in Mania by D. J. Keane Gore — In the Ferrous, Subacute Tendium of low Nervous fevers, the Musk has done good — Musk has been recommended in Small Pox, Gangrene &c.

The reason why Musk is so little used in Practice in our Country, is because this medicine is extremely dear and always adulterated —

* Castor — It is a substance peculiarly odouriferous — It is obtained from an Animal — The best kind of Castor comes from Russia — It is obtained from our Country, but it is adulterated — The properties of Castor and Musk are very nearly the same — Both contain resins and saline matters — This article has been employed in Erythema — In Epilepsy, our medicine has been much used — Castor is given in a dose of from ʒss. to ʒi — There is a Re. Castorei in the shops — Some writers suppose Castor to possess Narcotic powers —

It is narcotic when used
in large quantities

Crocus or Saffron — This is an article extremely common — it is used in what is called vulgar old women's practice — it is common in our gardens — when this medicine is chemically examined it is found to have peculiar properties — Monro says that saffron is an excellent aromatic plant — It is, says Monro, a gentle anodyne — it is often mixed with other substances to form Cataplasms — Bergius says it renders Spasmodic patients worse — The smell of Saffron when strong is said to create violent headache — The great Character of Saffron is its power of exhilarating the spirits — but it is said often to create great sadness — Dr Cullen thinks very little of saffron as a medicine —

Valerian — it is not a native of America though we have it in our country and it is worth investigating — it is a stimulant — it is only the root that we use in medicine — it has a peculiar odour — it affects cats very remarkably — its effects on the pulse have not been much attended to — it acts as a diuretic, diaphoretic and in a large dose it is purgative — It rarely creates vomiting — the Valerian has been long in use — It has been much used in Epilepsy — perhaps it has received more credit than it deserves — Dr Cullen advocates the Anti-Spasmodic power of this medicine — Epilepsy often depends on organic affection and cannot be cured by any medicine — but Epilepsy has been cured by Valerian. I have used it in our Hospital

* he ought to know something of it & not let a
prosecutor plead ignorance in such a case -

but I cannot say it did much good —
 In one case of Epilepsy in this city I have seen
 the Valerian do much good — it appeared
 to depend on a war connected with worms —
 In Chorea Sacra Sancta Viti, our medicine
 has been used —
 In Periodical Head ache the Valerian has
 been used with advantage — I have used
 this medicine in Hemicrania with much
 advantage — I mostly combined it with Bark —
 The Valerian has been recommended 3 or 4 times
 a day in Amnesia or Gutta Serena —
Gutta Serena may depend on affection of the
 stomach and in this way the Valerian has cured
 this disease —
Valerian is a powerful Antiseptic — it has
 been recommended as an Anthelmintic — it
 is said to relieve great costiveness — There is
 a Tinct. Valerianæ kept in the shops — It is
 best when given in substance in powder from
 ʒi to ʒi in 24 hours —

Conifera

February 12th 1810

Pinus. Pine — produces Turpentine of different
 qualities — this turpentine applied to the skin
 occasions much inflammation — In wounds &
 ulcers turpentine has been used with advantage —
 The Ol. Perubintine is much used in burns
 and scalds — it is much advocated by some
 and opposed by others — I know nothing of this
 practice by experience — when we wish to give
 the article internally we should combine it

R^o Turpentine 3℥
 yolk of an egg 3℥
 Quater 1 or 2 pills
 Inst. Trjectu —

In Sciatica

R^o Turpentine 3ij Mel. 3i The dose two tea spoonfuls
 in wine or water

with some bland substance as honey or we
 may use it in pills - Turpentine may be so
 managed as to act like a purgative - Propry
 $\frac{zj}{ss}$ of turpentine is triturated with a yolk of an
 egg so as to be suspended in a quantity of water;
 this is used in form of Glyster - The smell and
 taste of Turpentine can be ~~smelt~~ ^{discreetly} in the Passi-
 -ration of those who have taken it - Turpentine
 also passes off by exhalation from the lungs -
 Injections of Turpentine and water have been used
 to allay vomiting in Yellow Fever &c - The
 diuretic property of Turpentine has been hunted at -
Gleet is a disease in which Turpentine has been
 much used - I have used it frequently and
 with advantage, never with inconvenience -
 xv or xx gtt. of Bals. Capivi may be given
 3 times a day - I use the Turpentine in form
 of pills - In Leucor albus, this medicine has
 been much employed but with no great success -
 This article has been employed in Propry -
 some writers speak of our medicine in Hydrothorax -
 An essential ^{oil} is obtained from turpentine by dis-
 tillation - when applied to the skin it inflames
 very much - in the stomach it creates a sense
 of heat - in large doses it brings on strangury -
 In Sciatica the following prescription was
 used by Dr. Ferri - R Turpentine zj Honey zj
 M - dose two tea spoons full morning and evening -
Al. Ierebutina has been recommended in Internal
 Hemorrhages - this medicine being a powerful
 stimulant we might suppose it well adapted
 to Pasive Hemorrhages -

+ Charlie is good in the same disease

+ It is also obtained by Distillation +

o This mixture is made by
boasting the tar on a piece of
mutton & heating it

o Copiarba officinalis -

In Gonorrhoea -

Rx Salomel ℞ iv Bals. Copauvi grs xxx on L. Pulv. of Arabic Gum -
Aque 3x ℞ ft Injectio -

If you doubt whether Gleet exists or
no, give up 30 drops of Turpentine
& if the pain does not increase it is Gleet.

Serpentine with Pecacuanha has been used in Diarrhoea - Serpentine is an Anthelmintic -

+ Burgundy Pitch introduced into the ear has cured deafness - the pitch must be wrapped up in gauze and put into the meatus auditorius - Serpentine Shellac is taken into the Circulation - I hold it as a fact that Serpentine is absorbed by the skin when much handled - The Serpentine plaster has cured Tinea Capitis - but the cure is quite mechanical -

+ Pix Liquida - Tar - is obtained from the Tree - it differs from Serpentine in being Empy-
reumatic - a mixture of Mutta Net and

o Tar has been used in Ulcers - Herpes - Tar has been used in form of pills in Consumption & Tar water has been used in many diseases - it sometimes acts as a diuretic - it has been found useful in Scurvy. Tar is now found to contain a large quantity of Benzoiic acid -

o Balsam Copaiva - the virtues of this article are similar to those of Serpentine - it has been recommended in Ulcers of the lungs - In Gleet, this medicine is an important remedy - It acts on the stomach well when taken in a little wine - if exhibited in large doses it proves laxative - Gonorrhoea has been cured by the use of this medicine in form of Injection - I have used Calomel 4 grs Bals Copai 30 or 50 grs G. Arabi ʒijss Aqua ʒijss ft. Injection - This has often cured violent Gonorrhoea - as long as the discharge is greenish or yellow you may suppose Gonorrhoea to exist.

→ Soluble entirely in Spirit -

Ap Gum Guaiac Ziz
M Spirit thuj

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In Hemorrhoidal affections the Bals. Copacava has done good - I have used this Balm in Arthritic Patients who could not take Gum. Guaiacum -

Bals. Peru is of a strong flavour and somewhat acid - it is the produce of a tree of parts of Mexico - it is obtained by boiling the branches of the tree - it is of a dark colour and contains an acid probably the Benzic acid - It has been used in wounds of the verrucae - we are told of its success in Pulmonary Consumption -

Feb 13th 1810

Gum Guaiacum - This is obtained from the Guaiacum officinale of Linnaeus - the legum. vite is the wood of the Guaiacum - this wood always sinks in water - it has little smell until rasped or heated - it has a pungent taste - this article is a true gum resin - This article is peculiar to the new world and was not brought into Europe until the discovery of America by Columbus - This medicine for a long time was the only remedy for Syphilis and continued so until Mercury was introduced - the use of this article in Syphilis is still attended to in Europe and in our country - I have known it, says Bell, to cure venereal disease - The venereal disease has been said to have been brought from America into Europe, but this is certainly incorrect - Mr Hunter used Guaiacum in Syphilis - but I do not know that he cured with this medicine alone - In Gout our medicine has acquired much reputation - the following recipe is used R Gum Guaiacum $\frac{ij}{ij}$ Spirit 3 pints the digest for some days - filter - the dose is a Spoonful 3 times a day - this turns out to be no more than the Tinct. Guaiacum of the Shops - The Vol. Tinct. Guaiacum is used in Gout - I have used 3 $\frac{ij}{ij}$ of this medicine in a day in our Hospital -

In Rheumatismus after 8.8.

℞ Pulv. G. Guaiaci ℥ss Pulv. G. arabici ℥ij Sacch. album ℥ss
tere in mortario marmoreo et adde X Aqua ℥ss Mft. Pulab-
signa ℥i- for an adult -
in aq. Cinnamon.

In Dyspepsia -

℞ Pulv. G. Guaiaci Rubigo Ferri aa ℥ss Pulv. Saponis ℥ss Mft. Pulv.

℞ Pulv. Suet made by adding
pt Sal am ℥ss to ℥ss R. Guaiac -

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We may begin with $\mathcal{Z}\mathfrak{i}$ of the Tinct. 3 times a day and increase to $\mathcal{Z}\mathfrak{ss}$ 5 times - It is an acid medicine, but this acrimony may be obviated by mixing it with milk - Quat is always milder in warm climates - In Rheumatism I have employed this medicine - I mostly use a watery preparation after bleeding - I use the following formula \mathcal{Q} Gum Guaiacum $\mathcal{Z}\mathfrak{ss}$ Gum Arabic $\mathcal{Z}\mathfrak{ij}$ rub these together add Aqua $\mathcal{Z}\mathfrak{xx}$ - Saccharum album $\mathcal{Z}\mathfrak{ss}$ to ft Pulv. - Dose $\mathcal{Z}\mathfrak{i}$ for an adult - a little while after the medicine has been prepared it turns of a green colour which sometimes makes our patients unwilling to take the medicine - Guaiacum has been found useful in Colica Pictorum - I used the above formula generally - it operates as an universal stimulant - The preparations of Guaiacum are well adapted to Arthritic Dyspepsia - Dr Hewson gives Guaiacum - Rubij. Semi an $\mathcal{X}\mathfrak{ss}$ Capricum 5 grs. to the patients in our Prison Laboratory under Dyspepsia - In some cases of Dropsy the Guaiacum may do good - that is the Vol. Tinct. Guaiac. - it acts as a diuretic - it may be used in powder \mathcal{X} gr 3 times a day in form of pill - it may be used in watery solution as above - and it may be used in form of Vol. Tinct. Guaiaci -

Gum Myrrh - This is of a brown colour and is pellucid - it has a fragrant smell and is aromatic - it shows an evident stimulating operation on the stomach - when taken largely it produces frequency of pulse - as a strengthener of the stomach our medicine has been used - Myrrh has been used in intermittents - it has been used to the quantity of $\mathcal{Z}\mathfrak{i}$ in 24 hours to prevent the paroxysms - In Angina Maligna the Myrrh and Bark combined have been found very useful - The Pectoral qualities of Myrrh have been much celebrated in England - Dr Cullen objects to it - The Practice of Myrrh in the suppurative state of Consumption is an old one -

lucert, inert practitioner! this would all stick
in a fellows teeth; give 3 table spoonful -

+ Swallowed without chewing

Myrrh has been much employed in old Ulees
 & Sydenham used Myrrh with Iron in Febris ^{Alba} ~~Alba~~
Chlorosis - the virtue of Myrrh may be extracted by
 water or spirit -

Siliquose plants - there are numerous - I shall
 speak of Mustard and Horse Radish - internally
 they have been recommended in many diseases -
Mustard seed 3 spoonful have been given daily
 in Intermittents - added to bark it makes the
 latter more active - The mustard seed is sometimes
 used in spirit - these plants have been much used
 in Chronic Rheumatism and Palsy - in Chronic
Rheumatism, the entire Mustard seed may be
 given 3 ^{tea} spoonful daily - it must be used un-
 bruised for if in powder it proves Emetic - we
 must continue the use a long time - it may be
 swallowed easily in molasses - The Horse Radish
 is infused in wine and is a powerful medicine -
 it does good in Palsy & Rheumatism - Berquin
 recommends it to be ~~continued~~ to the quantity of a
 table spoonful daily in Rheumatism - The Horse
Radish & Mustard have been used in Dropsy,
 the active matter of these medicines is carried into
 the circulation and proves diuretic - but I would
 forbid the use of these medicines in Inflammatory
Dropsy and restrict ^{their} use to Dropsy from Debility
 In Scoury these medicines have been found good -
 the Horse Radish especially made into an infusion -
 a weak infusion of Mustard seed cures violent vom-
 itings - if the infusion be strong it vomits - I use
 a tea spoonful in a gill of water -
 of the flower of mustard stir it and let it subside - this cer-
 tainly allays vomiting very soon - some of the sili-
 quose plants eaten by animals have the matter of
 the plants carried into the system so as to enter their
 flesh - the external application of Mustard &
 Horse Radish is much attended to -

Gum Asaplectide
 is the produce of the Horula
apopside of Serimam - the
 tree is cut off high up and the Gum
 exudes of a white color becoming
 gradually darker - the juice when
 fresh is very strong - it is a gum
 resin - the gum is in excess, but the
 odor resides in the Resin - the more odor
 the better - the tree grows in Persia -
 I use it as follows -

R^o Cy Hotis 3'ij

Resin

G. Gaulth or 3'ij

Aque Menthe 3'ij

the bene there in most cases it

add a good, Aque

* tobacco of that part of the cure

In using Mustard externally we employ the
 Flour of Mustard - a plaster is made by combining
 it with rye meal and vinegar or milk - the
 quantities of each must be varied according to cir-
 cumstances - mustard and Flare Radish externally
 applied, stimulate the parts and create redness and
 if kept on long enough vesiculate the skin - They
 act somewhat like blisters but discharge no serum -
 the pain of mustard plaster is greater than that of
 Cantharides - the mustard plaster acts only as a
 stimulus - the Flare Radish is still more stimulant
 and is therefore often employed with advantage -
 the operation of these is very immediate and certain -
 There Sinapisms are much used in Convulsions from
 dentition and Small Pox - In Croup or Whooping
 I have often used the sinapism of mustard to the an-
 terior part of the neck - In Angina Gangrenosa or
 scarlatina, these sinapisms are found very useful
 In Vertigo, the use of sinapism is very often necessary
 and of great importance - Sinapisms are often very
 precarious remedies - they sometimes occasion trans-
 location of disease - There are some cases in which
 deafness has been much relieved by strong sinapisms -
 Gout very often attacks the bladder creating the angury, the
 latter is removed by the application of sinapism to the
 ankles - I have often applied sinapism to the
 ankles to prevent the return of Epileptic paroxysms -
 they should be applied an hour before the ^{expected} attack -
 Cholera Morbus is a disease in which no time should be
 lost - I have always immediate recourse to the use
 of sinapism to the ankles - but I also use Sandalwood
 freely - the use of sinapism in this disease originates
 with myself so far as I know - Sinapisms have been
 used to prevent the paroxysms of Intermittents -
 The viligore plants have been recommended in diseases
 of the organs of Generation - as Barrenness -

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Alliaceus plants as garlic, leek
and onions are used - leek most stim-
ulating - cloves of garlic may be infused
in spirit & taken - they are used cut &
made into pills with bread but this is not
a good mode - the strength of the medicine
is lost -

Diet drink

℞ Radix asarum ʒij - Santal. rub. ʒij - Rad. mezerion
radix Glycyrrhizae aa ʒss - Pulv. Q. Quinac ʒij - Aqua bullient ʒij
℞ ft. Haustum -

In Syphilis

℞ Radix mezerion ʒij - Rad. Glycyrrhizae ʒss - Aqua bullient ʒij -
℞ ft. Haustum -

Dr Rush uses Garlic by
putting several cloves into a glass of
spirit of Ag. Menthe. This is more
approved -

I have generally used the Siliquose plants in substance but they are used in form of Infusion - I have of late used another mode of applying to Mustard - I take a handful of the bran of Mustard, and put it into 2 or 3 gallons of warm water - the feet are put into it and are thus sufficiently stimulated - this plan originated with myself so far as I know and I recommend it to you - *A. J. C.*

Thursday Febry 15th 1810

Mezerion - it grows in the neighbourhood of this city - the decoction has long been used in Syphilis - the recipe made use of by D. Mauro to form a diet drink
 ℥ij Sarsaparilla - ℥ij Red Saunders -
 Mezerion - Siliquose 3ss - Gum Guaiacum
 Aqua bullientis ℥ijij R -
 Mezerion is used in decoction in various quantities for different diseases - the Lisbon Diet drink owes its virtues chiefly to the Mezerion & it has been used in old nodes &c - a drink has been made by boiling ℥ij Mezerion in ℥ij of water - add 3ss Siliquose - take a pint every day - this has been used in Syphilis -
 It has seldom done good except Mercury has been previously used - the Diet drink has been used with success in removing glandular swellings - Benj Bell has spoken well of the use of Mezerion in Syphilis - In old ulcers our medicine has been much used combined with Opium - A decoction of Mezerion with Mercury has been found useful in Hernia Tumoralis or swelled Testicle - the bark of the Mezerion in the mouth excites a pungent taste - on this account it has been used in difficult deglutition - I think it might be useful in Stammering -

Gum Ammoniac is little
 used as an expectant -

It is of little importance.
 sometime combined with a preparation -

The Bark, when applied to the skin excites a blister - the fresh bark is to be bruised in ~~water~~ and then applied ~~in the~~ skin as we apply blisters - it occasions a copious discharge of serum - this has been recommended in cases of ophthalmia; the bark is applied to the arms and legs - every one should be acquainted with this medicine - it is not a native of our country - the nearest allied to the Ulex-erum is the Lantoxylum -

Evacuating Stimulants properly so called -

Rrhines are medicines which discharge a mucus from the nose - this mucus comes from the follicles of the Schneiderian membrane - the evacuation of rrhines is often attended with sneezing - but the sneezing cannot vary the nature of the evacuated matter - Rrhines often go no further than to restore the natural evacuation of the nose - but they sometimes increase the natural discharge - the rrhines are often found good in Toothache and congestion - Cullen says that ophthalmia has been cured by Rrhines - I refer you to 2^d 3^d vol of American Philosophical Transactions -

In Hydrocephalus Internus - rrhines have been used - Sternutatories say I have been much used in this disease - I believe they have never been employed in this city in this disease - I think Rrhines might do good in Epilepsy free from organic affection of the brain - I have used sulphat Mercury & To Snuff each equal parts - I believe there are many diseases in which Rrhines might be used - In Deafness these medicines may do good - Some cases of deafness depend on obstruction of the Eustachian Tube from cold - the membrane communicating with the ear is swelled - this occasions a peculiar noise &c &c &c and the rest

+ Colly foot

This species of deafness is often a curable disease: I have cured it by applying blisters near the Mastoid Process - bleeding has done good - but I have used the Sulph Gly drag & Snuff in equal parts with success -

In Gutta Serena - the Erhines have been employed with advantage - this disease sometimes depends on gastric affection and is not connected with disease of the brain - W W are used as an Erhine composed of \times gr of Turpeth Mineral to 3i of good Snuff - I have used the Mercurial snuff with great advantage - I have used Storons at the same time - When Gutta Serena depends on organic affection of the Brain as in syphilis, we need not expect much relief from the Erhine medicines - In Gutta Serena from lead the Erhine medicines may do good -

This disease sometimes comes on very suddenly - and here Mercurial snuff with Storons ~~do~~ have given much relief - Writers say that in Gutta Serena the iris is immovable and the pupil does not contract - this I am certain is an error, for the Iris will mostly contract and dilate as it is affected with more or less light -

Mineral Erhines - we have yet discovered but few mineral Erhines - The Turpeth Mineral is the most important one - I have seen the Turpeth Mineral with Snuff induce salivation - A solution of white vitriol and water is a good Erhine - the vapour of quick lime produces sneezing -

Vegetable Erhines - The Beet of our garden is an Erhine and has been used for various affections of tooth ache &c - The Asarum or Asarabacum is an Erhine - this is one of the most common of the vegetable Erhines -

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Asarum is the basis of a Palus Stomatitidis mentioned in the Edinburgh Dispensatory — it is found in various parts its common name is Coltsfoot —

Phytolacca or Poke is a good Erhine —

Tobacco is a good Erhine as you all know — in a moderate dose Dr Cullen says it is very good but he disliked the snuff but too well — I think persons of a plethoric habit who have been in the habit of using snuff, should cleanse it off directly — I know some persons who cannot take a large pinch of snuff without being affected with sickness of the stomach — Dr Cullen says he has found Dyspepsia produced by the frequent use of snuff — Hysteria has been brought on by using snuff — Maniacs are often found eating snuff — I conceive the practice of snuffing to be one of the most dirty, preposterous habits ever in use — The snuff now in use contain not only Tobacco but also sal. Ammoniac and Potash — and sometimes powdered Glass —

Febry 16th 1810

The powder of the leaves of Digitalis is an Erhine — The Bupharbium of the shops is an acid erhine medicine — it is said to produce hemorrhage in most cases — The white Hellebore is used as an Erhine — Bupharbium has been said to remove Cataracts; this has been asserted by Mr Boyle — I refer you to Bradley's Med^{co} Phys^{ic} Journal — The white Hellebore which I have mentioned as an Erhine is a native of our country — The Mexicans have an erhine of great powers — The Helianthus autumnalis is a very common plant in the United States — it flowers in August — it is an erhine —

This weed gets most powerful emetic properties — its odour is agreeable — I think true medicines are too much neglected by physicians — I have found them of service in Gutta serena. & deafness — I think the use of emetics is a natural practice —

Sialagogues — these secrete saliva — they are either external or internal — The external are certain acid articles which are applied to the inside of the mouth and stimulate the excretory ducts — they act somewhat like emetic medicines — a great many acid substances applied to the tongue excite secretion of saliva — The sialagogues are much allied to the Emetics — The emetic Sulphur Mineral & Sulfur often salivates — The Pyrethra or Pellitory of Spain is a sialagogue when applied to the tongue — Trebe's toothache — the powder of this plant applied to the nose excites a discharge from it — it is a very acid plant — it has been given in Epilepsy in Britain with advantage — Tobacco when chewed often salivates — it has been found useful in Scurvy — The Imperatorum or Mastwort is a sialagogue — Camphor taken into the mouth excites a great flow of saliva — Dr Cullen says fresh horse Radish is a good external sialagogue — The Xanthoxylon is a powerful sialagogue — it is an American plant — The salivary powers reside in the Bark and Berry — It has been found good in Tooth ache — The Indians use it in Syphilis — The Xanthoxylon in Rheumatism is a good medicine — from this plant Camphor is obtained — The Paligala Seneka of Linnaeus is a powerful sialagogue — it might be used in Rheumatic Tooth ache —

Internal sialagogues —

Mercury — is used in Scurvy. I must observe that the practice of Mercury in Scurvy is ancient —

The first of these is the fact that the
 system is not a simple one, but a
 complex one, involving a number of
 factors which are interrelated. The
 second is the fact that the system is
 not a static one, but a dynamic one,
 which is constantly changing and
 developing. The third is the fact that
 the system is not a closed one, but an
 open one, which is constantly
 interacting with the environment.
 The fourth is the fact that the system
 is not a homogeneous one, but a
 heterogeneous one, which is composed
 of many different parts and
 components. The fifth is the fact
 that the system is not a simple one,
 but a complex one, involving a
 number of factors which are
 interrelated. The sixth is the fact
 that the system is not a static one,
 but a dynamic one, which is
 constantly changing and developing.
 The seventh is the fact that the
 system is not a closed one, but an
 open one, which is constantly
 interacting with the environment.
 The eighth is the fact that the
 system is not a homogeneous one,
 but a heterogeneous one, which is
 composed of many different parts
 and components. The ninth is the
 fact that the system is not a simple
 one, but a complex one, involving
 a number of factors which are
 interrelated. The tenth is the fact
 that the system is not a static one,
 but a dynamic one, which is
 constantly changing and developing.
 The eleventh is the fact that the
 system is not a closed one, but an
 open one, which is constantly
 interacting with the environment.
 The twelfth is the fact that the
 system is not a homogeneous one,
 but a heterogeneous one, which is
 composed of many different parts
 and components. The thirteenth is
 the fact that the system is not a
 simple one, but a complex one,
 involving a number of factors which
 are interrelated. The fourteenth is
 the fact that the system is not a
 static one, but a dynamic one,
 which is constantly changing and
 developing. The fifteenth is the
 fact that the system is not a closed
 one, but an open one, which is
 constantly interacting with the
 environment. The sixteenth is the
 fact that the system is not a
 homogeneous one, but a
 heterogeneous one, which is
 composed of many different parts
 and components. The seventeenth
 is the fact that the system is not
 a simple one, but a complex one,
 involving a number of factors which
 are interrelated. The eighteenth
 is the fact that the system is not
 a static one, but a dynamic one,
 which is constantly changing and
 developing. The nineteenth is the
 fact that the system is not a closed
 one, but an open one, which is
 constantly interacting with the
 environment. The twentieth is the
 fact that the system is not a
 homogeneous one, but a
 heterogeneous one, which is
 composed of many different parts
 and components.

Mercury - has been used 200 years ago - in 1701 this
 medicine was employed in Tertian fevers - I believe that
 Mercury rarely cures an Intermittent fever - it
 only prepares the way for the use of Bark or Arsenic -
 It should only be used as an auxiliary - but it may
 be used in Remitting fevers - the salivation of the mouth
 a permanent impulsion in the disease - Mercurial
 medicines are used in yellow fever - but I will not
 say much of it - in all the cases I have seen I
 never saw a patient die of yellow fever where a
 salivation took place - since 1790, Mercury has
 been less trusted to in yellow fever - there are some
 persons whom no quantity of Mercury will salivate -
 Mercurial medicines have been used in Dysentery - there is one
 writer who has used it so much in this disease as Dr Clarke
 (died) - when the mercury excited a salivation it generally
 cured the patient - He combined Calomel with Pleuro-
anika in this disease - I have seen mercury do
 harm, but it is certainly a good remedy - if the
 mercury does not produce good effects in a few
 days, lay aside the medicine for it will do harm to
 your patient - I believe that the use of Mercury in
Dysentery is a very nice and precaution medicine
 and I hope you will never use it except with great
 caution - I have seen it prove fatal - I shall here-
 after be more sparing of the use of mercury in Dysentery
 and shall never use it without great care - In Dysen-
tery combined with Scoury, the use of Mercury is a bad
 practice - Mercury is often employed with advantage
 in Diarrhoea - it is most useful in the chronic state
 of diarrhoea - I have found little of service in this
 disease - the use of mercury in such diarrhoea is
 less ambiguous & hazardous than has been supposed -
Mercury has been used in Consumption of the Lungs
 I have never cured it with this medicine - I have seen
 it give relief - I have found the Mercurial plan less
 useful than any other plan -

25 are ten
 R Caros Sulphurati

Agm 3 1/2 gr 4
 R grise. Et guttatum
 to a child in Croup

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same Physicians have found Mercury good in
Pulmonary Consumption - Mercury was used in
this disease in the case of King William - and it
was used in the same disease 40 years ago by Skene -

Feb 19 1810

Mercury has been long employed in Cynanche
Trachealis - It has been generally used to create a sal-
ivation - I have used Calomel with Spacacantha
in Scarlatina - I have been informed that this
disease has been treated with fangs of corrosive
sublimate - The Cynanche Trachealis is a disease
in which Mercury has been used - Calomel has
been employed in this disease - I have seen this
disease terminate in 24 hours - some physicians
have advised Mercury to in order to salivate -
but in children, this is almost impracticable -
I have used Purpith Mineral in this disease with
advantage - Of the use of Mineral medicine
in Rheumatism I have not much to say - I
have used Mercury in this disease combined with
Guaiacum - The venereal Rheumatism is best
managed by Mercury in union with Opium - I
have generally in such cases given Mercury and
at the same time Dover's powder - In Rheuma-
tism of the Intermittent form, Mercury is some-
times used - We are often called to patient with
Rheumatism brought on by nothing else but the
suppression of Gonorrhoeal Saliva - when the Gon-
orrhoea returned the Rheumatism retired - These
cases should be treated with Mercury - As far
as I know Mercury has been little used in Gout -
Heberden has often used Mercury with Opium in
Gout - We seldom think it necessary to use Mer-
cury in Pneumonic Inflammation - but there is
a Pneumonia of low morbid power arising from the
same cause as Intermittents - This may be treated

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with Mercury - Hepatitis arises from the same
cause, as those which produce intermittents -
bleeding, blistering &c may be employed - Mercury
is much used in this disease - The use of mercury in this
disease is established - as soon as the mouth is made
 sore the mercury may be laid aside - if the pain
be severe, bleed and apply a blister to the side -
I never saw mercury cure except it salivated the
patients - This disease is certainly inflammatory
in the first instance and here I think Mercury
should not be used - the system should be reduced
by bleeding before we salivate - In Goutte or Bum-
Chocole, mercury has been much used - and
this medicine has certainly cured in some dis-
eases - in some persons, the mercury has only
retarded the progress of Goutte but not removed
it - I shall say something of the use of mercury in
Dropsies - The use of mercury in this disease is
an old practice - mercury is an ambiguous
medicine in Hydrocephalus internus - it does
not cure more than two cases out of twenty - a
number of remarks on Mercury in this disease
&c - &c - Mercury is used in Epilepsy, but it
seldom cures - I never saw it succeed in this
disease - In Tetanus, our medicine has been
used in form of frictions over the whole body -
mercury has cured this disease - I have seen it
succeed in Tetanus -

The Quina Serena

R. Aq. Mur Hydrargyri gr. ij - Vinoli Ether ℥ij - M. - dose X drops 3 times a day

- July 28th 1840 -

Hydrophobia has been cured by the use of Mercury in many cases — there is much fallacy attending the majority of cases in which patients are said to labour under this disease — I do not doubt that mercury has cured and prevented the disease — the great difficulty is to excite a salivation in all cases and to regulate it as we wish — the effects of a bite of a mad animal do not always appear soon, they sometimes remain 40 days without coming on — I believe it is best to use mercury internally and externally at the same time — I think it is best to bring a great irritation of the mouth about the time at which we expect to see the symptoms of hydrophobia — Mercury has been used in cases of bites of snakes — In Construction of the Oesophagus, mercury has been used with great advantage — In Hypochondriasis, our medicine has been employed with success in many cases — The Mercurial Preparation that has been found most advantageous in this disease is the Oil. coerule — I wish I could inform you of the success of Mercury in Mania, but of this I have little or nothing to say — In various Paralytic Affections, mercury has been employed with advantage — In Palsy succeeding to Venereal disease, mercury has been much employed — In Rheumatism, Mercury has been used — In Colica Pictonum, our medicine has been very useful — Dr Clarke has given ℥ss Calomel in 24 hours — I refer you to Bradley's Journal — In this disease Mercury has been used not only to purge but to salivate — I have used Mercury in this disease in the Penit. Hospital — Mercurial medicines have been used in Gutta serena — sometime this disease depends on Syphilis — Mercury appears well adapted to this disease — The Aq. emulsiat Hydrocepi & Currosi Valluniate has been employed in this disease — R. Ox. ellum Hyd. & ℥i Vitriculi Et ℥ij The dose X drops 3 times in a cup of warm milk —

In Gonorrhoea -

℞ Calomel ℥ss Pulv opii ꝑij - Pulv. g. arabici ℥ij. tere et adde
 aquae ℥x Mft. Injectio -

* who in the Duke cares what he don't believe

* who in the ditch is that? it belongs to horses
 don't it?

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Great caution is always necessary in the administration of Mercury - Some cases of Deafness are successfully treated by Mercury - In some cases of Scrophula the use of Mercury has done much good - I believe from observation that many cases of scrophula depend on and are connected with Syphilis - and in these cases Mercury is advantageously employed - The stumous tumors in the neck of children have been treated by Mercurial ointment - In the open scrophulous Ulcers, I believe there is no better application than the Nat. Hydrargyri Rub. - Cancerous affections have been cured with Mercury - A late writer has said that Mercury is best used in Cancers after an operation has been performed and unhealthy granulations have arisen - I have used Mercury internally and externally in Cancerous like ulcers with some success -

Of the use of Mercury in the Veneral disease, I have little to say, because this subject is treated at large in books - I do not believe that Chancres have ever been cured by any medicine but Mercury - Some medicines may palliate, but this remedy is the only remedy for confirmed Syphilis - With respect to Gonorrhoea, this medicine is little used - I do not believe the matter of Syphilis and Gonorrhoea to be the same - I have used injections of Mercury in Gonorrhoea - Rj Calomel ℥ss Opium grj - Cylarabic Zij rub them together and add Aqua ℥x - Mf Injectis - I have used injections of Corrosive Sublimate, but the Calomel injection is better - Some writers say that in attempting to salivate Syphilitic patients it is best to carry the use of the Mercury no farther to affect the mouth -

In Frambesia; this medicine has been used in this disease - It is called by some yaws - of Lepra, I can say but little - I have seen but few cases of this disease -

The first of these is the fact that the
the second is the fact that the
the third is the fact that the
the fourth is the fact that the
the fifth is the fact that the
the sixth is the fact that the
the seventh is the fact that the
the eighth is the fact that the
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Some Physicians assert that Lepra has been aggravated by the use of Mercury - The preparation of Mercury most likely to do good in this disease is the red nitrate of Mercury - In Psora or Itch, a solution of Minicute of Mercury in Lime water has succeeded - This solution is called Aqua Phagedenica - I have found the Unst. Hydrag. Nitrate of advantage in this disease - The Linea Capitis often refuses to yield to Mercury - This disease has yielded to the common Laurel of our Country - This medicine taken internally produced a remarkable effect in this disease in many patients in whom I have tried it - I have used a wash externally composed of the Laurel or Kalmia - A disease of the Skin often remains a long time after the application of blisters - This is well treated with Aqua Phagedenica - The Rus Radicans or Sumac when applied to the Skin brings on a peculiar disease - It appears in the 9th day after the application of the poisonous vine - The best remedy for this is the Sublimate Corrosive dissolved in water or Lime water - it always acts in curing the disease speedily - I can cure this disease on myself in 40 hours with this medicine - I believe that Mercury destroys the susceptibility of the system to this disease - I generally use about 4 grs of Corrosive Sublimate to 8 $\frac{1}{2}$ of water - The disease called Formicatio fungosa or Itching is cured by Mercury - I never advise the curing of this disease in Arthritic patients -

Pluck mixture
 4 Mercury anide ʒi. 9. Arabic ʒi. Ague ʒi. Rub together
 add Simple syrup ʒss. Ague ʒi. - Dose ʒi -

Jelly - 22^o 1816

Mercury in a pure state is quite inert - it has been employed to act by its weight and slipperiness - Mercury in its crude state may have some effect on the system - In order that this mineral should become active on the system it should be chemically prepared - ^{changed} Pure Quicksilver when agitated with distilled water changes the colour and properties of the latter and renders it a medicine of some activity - The water thus prepared has killed worms & leeches - The Exumes of Mercury received in venereal ulcers have been very useful in healing them - The smoke of Cinabar, a sulphuret of Mercury are used for this purpose - but I have never used these fumigations - Dr Cullen says this practice is attended with some hazard -

The preparations of Mercury formed by trituration with powders are always milder than those prepared with acids - The Blue Pill is an excellent preparation made by trituration of Mercury with Rhubarb or something else until the globules disappear - I think this the most manageable of all Mercurial preparations - Some have supposed that this Blue pill is not as well adapted to its venereal diseases as the saline Mercurial preparations - Venereal sores often refuse to yield to the Blue Pill even when a salivation has been induced - it is best always to change the preparation of Mercury - Dr Plenck of Vienna has recommended a mixture of Quicksilver and Gum arabic - R. Mercury ʒi - G. arabic ʒij - ʒij aqua arab. them together - ad ʒjss simple Syrup

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Aqua $\frac{1}{2}$ viij (Soft Mixture the dose is $\frac{1}{2}$ i —
He directs another mixture made with yolk of egg
instead of Gum. arabic — This is an important
local application — it is good in Venereal sore
throats — it has the advantage that it produces
a salivation very soon — Yet I believe this prepa-
ration is little used — Quicksilver rubbed with
hog's lard and a portion of Suet forms the
Mercurial ointment in use — It was formerly
a practice to add Turpentine or Bals. Copaiivi to
the Mercury to unite it with the lard, but this
a bad practice in some cases, though in old
Cancerous sores, I think the Turpentine is a good
addition — but it always creates inflammation
on the skin — The Suet is added to make the
preparation of a good consistence — A writer has
directed $\frac{1}{2}$ i of rancid sweet oil to be mixed with
the Mercury and then to add the lard — I Leake
used to put a quantity of Mercury into a stop-
pered bottle with sweet oil rancid or not —
shake the bottle a few minutes and then rub it
in a mortar for a minute and the preparation
is finished — mercurial ointment applied with-
out friction is unavailing —

The Calcined Preparations of Mercury were
formerly thought to be the best — The principal
preparation is the Mercurius precipitatus per se —
This preparation is formed by a great quantity of
oxygen being absorbed — This acts as an alternative —
I think the Hydrargyri Nitratis ruber induces
a salivation sooner than any other preparation —
I think it best adapted to old venereal Ulcers —
This is a very active preparation —

Sub-Mar. Hydrag. et Ammoniac
made

White Precipitate is by

precipitating mercury from its solution in *Sub-Mar. Hyd.*
by means of a solution of *Muriac Ammoniac* - Then
add solution of Carb Potash in separate
part of the Mer Acid

It has advantages over Calomel & Sublimate because it is less likely to purge -

Saline Preparations - I shall first speak of those formed by the union of Sulphuric acid with Mercury - the chief of them is a Sulphate of Mercury called Terpith Mineral - This is an acid preparation and must be given from 1 to 4 grs - as an alterative $\frac{1}{2}$ gr is a dose -

This medicine was much used formerly as an alterative in Syphilis - Mercury readily unites with Muriatic Acid and forms Muriate of Mercury or Corrosive Sublimate - I have used Corrosive Sublimate combined with Opium and I think it an useful medicine - it is a good medicine in venereal disease in children - It is always best to begin with this medicine with small doses - a solution of Sublimate in lime water is a good medicine in cutaneous eruptions -

Calomel is an important medicine - it is a Muriate of Mercury with an excess of Mercury - I think it is less manageable as a salivator than the Blue Pill - but it is a good purge & sometimes a good salivator medicine - the combination of Mercury with Nitric acid forms some good medicines - one is the Mercurius Nitricus Cereus - it is made by dissolving Mercury in Nitric acid and precipitating the Mercury by means of Sal. ammoniac - An important preparation is made called the Ung. Hyd. N. A. - or Citrus ointment - it is good in cutaneous eruptions - a new preparation is made called the Mercurial Soap - The Hydrargyrum Phosphoratum is of late much noticed -

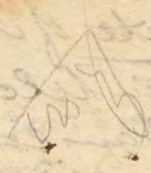
Malaripphilitic ulcer

℞ Phos. Hydrargyri gr. v. Pulv. Cinnamon gr. xiv. Sugar gr. xxx
M. ft. dos. viij - one to be taken a mane et nocte.

This Phosphate of Mercury has been much used in old Syphilitic Ulcers - it is a very active medicine - it creates Nausea - R^x Phosphat Hydrag - gen IV - Oculi Cinnamon 14 grs - Sugar 30 grs - The divide into doses of - one to be taken morning & evening until it salivates - French Physicians are prejudiced against preparations of Mercury in Nitric Acid - they say it destroys the Constitution - Keiper's Pill is a Mercurial preparation - it is an acetate of Mercury - The Borate of Mercury is never used in practice -

Modus Operandi of Mercury - The old opinion was that mercury acted as an universal evacuant and cleared offensive humors out of the body - S. Cullen believed the mercury to act as an evacuant and that it acted specifically on the salivary glands - Scheviedam thought that the preparation of Mercury combined with the Venereal poison and formed a neutral which was thrown out of the system - it is said that Chancre matter rubbed with Mercurial preparation destroyed the bad properties of the former - but this is false - I believe that the Mercury is absorbed into the system &c - The last theory is that of Mr Jno. Hunter - he believed that Mercury acted by counteracting the venereal poison and producing a new action in the system - many circumstances tend to prove this fact - he believes that the Mercury irritates the part already irritated but that the irritation of the Mercury counteracts that of the venereal virus and a new action takes place by which the disease is cured - an objection to this is that other irritants as Copper &c. ought also to cure the venereal disease -

4/1/63



Yes! just as natural as ^{to} the unintentional

* why are we not ^{what it really is -} ^{invariant} motion that's certain, but why are we ^{invariant}

I believe that this is the most plausible theory
but it is attended with many difficulties —
Refer you to Dr Adams —

Feb 23-1810

Emetics — There are such medicines, as throw up
the contents of the stomach — this is an important class
of medicines — they are among the first which were
ever used — I do not believe that they are too liberally
employed by physicians — vomiting seems to be a
natural remedy — many animals relieve them-
selves from disease by casting up the contents of
the ~~bowels~~ ^{stomach} — The Horse cannot be made to vomit;
his ~~an~~ inability to vomit is owing to the peculiar cir-
cumstances of his stomach — some Physiologists have
thought that the stomach is passive under the opera-
tion of an emetic — this was Dr Cheyne's notion —
some have said that the motion of the stomach
depends on the action of the Diaphragm &c. &c.
when morbid matters exist in the stomach, emetics
are certainly indicated — The mere evacuation of
the stomach is not all — but emetic effect, but
a part of the duodenum is also evacuated —
this being the case a quantity of bile is often
thrown up in the act of vomiting — vomiting
excites the force of the circulation throughout the body —
but this increase of circulation is not often lasting —
the system is generally left in a more languid state —
I cannot see why emetics are so much objected to
in diseases — but more of this hereafter —
Dr Robinson supposes that emetics occasioned a
contraction in the fibres of the body — Dr Cullen
says owing to the consent between the stomach and

& So it is - That there is an innate preservative power
 in the Animal fabric is as evident to observation
 & experience as any fact whatever, this may be called
 the vis med. nat. or any thing ^{else} expressive of the in-
 tinct meaning, but such a power is present; & he
 who denies it might as well deny he never has
 an Appetite to eat or in short that I do deny
 Cullen did not know more about it than any
 body else which he certainly did.
 what is it that heals a wound? what covers the surface of
 the cavity of the intestine to be discharged per anum -

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When the action of the vessels of the Litter is excited — After taking an Emetic the stomach remains quiescent for some time — in a few minutes nausea comes on and goes off — then returns — the eyes become languid — vomiting comes on — the face is red — sweat breaks out — pulse increased — there are mostly two or three attacks of vomiting — then the latter goes off — patient feels languid and drowsy and the pulse grows weaker — some persons believe that when emetics are taken into the stomach the vomiting excited is an effort of the vis medicatrix naturae to throw off the noxious matter — All emetics are certainly not deleterious as some have said, for there is nothing injurious in warm water which always acts as an Emetic — ^{it is delirious or works not by} ~~rejecting~~

Livers — The use of Emetics preparatory to Blood has been long known — they are something well fitted for this purpose — Climate and habit influence the action of Emetics on the system — It has been said that vomits are preferable to cathartics in summer — It has been disputed by medical men whether vomits are safe where there is a determination of blood to the brain — I think they are unsafe in such cases — but even to this rule, there are some exceptions — I have never known death from sea vomiting — In Epilepsy these medicines are much used — I have employed them in this disease and found them useful — In apoplexy depending on fullness of the stomach emetics may be found advantageous — Emetics have much recommended in Hydrocephalus ^{been}

Vomiting always comes on almost
spontaneously in this disease

468
Hydrocephalus always depends on fever and perhaps
emetics may be useful; but I have never resorted
to this practice - Emetics have been advantageously
employed in Acute Rheumatism - I believe that
one of the best means of curing rheumatism of
marshy countries is by emetics - Inflammatory
Gout has been successfully treated with Emetics -
a spontaneous vomiting has given great relief -
In the Sick Head ache, nausea and sometimes
vomiting does great good - I generally use for this
purpose Spessacantha - I think it an excellent
practice in women who are affected with arthritic
symptoms - I do not know that I ever employed
emetics in Ophthalmia - but they have been
used in this disease - The Part. Emetic is resorted to -
Emetics are often useful in the tardy eruption
of small pox - they are also useful in the
latter stage of this disease when there is a great
deal of mucus in the lungs - In the hoarseness
succeeding tubercles, Emetics are useful -
Emetics are used in Pertussis or Whooping Cough -
they cannot be used early in children - In
Dysentery, the Antimonial Wine has been used -
In some cases of Diarrhoea, the vegetable emetics
may be found useful - I have no doubt that
this disease might often be treated with success
by emetics - Diabetes has been cured by the
use of Emetics - Emetics are seldom used in
Dropsy - but they may do good in some cases -
In Anasarca succeeding to Remittent, emetics
may be found serviceable - I have used the
Sulph. Hydrarg. to excite vomiting in this
disease, with success -

I cant think so -

421

Emetics have been found beneficial in Jaundice - they are most serviceable when the disease depends on Gall Stones - In Genuine Pneumonia, we seldom give these medicines - Bloodletting is too great remedy, but Ipecacuanha is sometimes a good medicine in this disease - In Asthma, emetics have been used -

Phthisis Pulmonalis has been treated by the use of Emetics with great advantage - In the disease of Cynanche Tachealis, we frequently use Emetic medicines - I prefer Ipecacuanha to all other emetics in this disease - In Cynanche Maligna, I have often used Sulph. Mercury and also Ipecacuanha, but I prefer the former - other emetics are also used - to an adult I give 4 or 6 gr of Sulph. Hydrag - the effect is certain and immediate - to a child of 4 or 6 years, to give 2 gr - to children under 4 years give 1 gr or 1½ gr - I have never given less than one grain - It is an article of infinite advantage and is easily managed - In Mania, we often employ emetic medicines - the nauseating plan may be carried ^{on for} a long time in some cases - I have seen it do much more good than large bleedings - In robust Maniacs the strong emetics are best - in weak persons use the Ipecacuanha - In paralytic Affections, Emetics are frequently resorted to - In puerperal fever - emetics are highly recommended - some persons depend on these medicines entirely -

February 26 1810

Emetic have been successfully used in Hemorrhages
 of red blood - Dr Bryant says they are excellent
 remedies in Hemoptysis - Nauseating medicines
 have been found useful in Uterine Hemorrhages -
 In Dyspepsia some physicians have used Specac-
uanha with great advantage - also in most other
 hemorrhages, as Menorrhagia - Berquin used 1 gr of
Specacuanha with sugar in Uterine Hemorrhages,
 and found it very serviceable - In the Mictus Cru-
entus and Hematuria, the Specacuanha has
 been employed with success - in Hemoptysis this
 vegetable emetic has done much good - I have
 not had much experience with the emetic in such
 diseases - I have used Specacuanha in some cases,
 and think it the best medicine we can use, ex-
 cept it be the Sacch. Saturni - I give this Emetic
 (as is the Spica) in small doses - Is not the sickness
 and nausea which attends pregnancy, a kind &
 wise provision of Nature to prevent violent hem-
 orrhages from the uterus? I think it is a reason-
 able hypothesis. The lieue that Specacuanha is
 possessed of a highly relaxing or antispasmodic quality -
 I am sure that this Emetic does not act in hemorrhages
 by the sweating it occasions, else other sweating
 medicines should also cure hemorrhages - Specacuanha
 in uterine hemorrhages acts by translating excite-
 ment from the uterus to the stomach - the powers of
 the Acet. Plumbi are much increased by adding a
 portion of Specacuanha - though the lead is mostly
 the best medicine in hemorrhages yet Specacuanha
 is sometimes the most proper medicine - I have
 little or no use experience in the use of Emetics in
Encarcerated Hernia -

* "that use is attended with great advantage" yet the "Emet
 is plac is not proper" - this is new logic.

* I wonder how that would be proved? I don't believe
 it is.

Carum ~~Ging~~ or Turmeric is a
 valuable Emetic - X

Sanguinaria Canadensis & Puccoon -
 native -

But a famous Surgeon Richter cured a violent case of Encarcerated Hernia by the exhibition of small doses of Spécacuauba - The Swelled Testicle or Hernia Muinoratis, the employment of Emetics is attended with great advantage - I believe that the disease is seldom attended with a venereal taint and I believe the emetic plan is not very proper - the disease may be cured easier by bleeding, blistering cold water, Glauber's salt &c - Emetics are seldom employed to discur venereal Bubo, but they have sometimes done much service and even sometimes succeed in removing the swelling - Bubo's have been discur'd by the Nausea Mamma or sea sickness - I believe Emetics cure Bubo's by stimulating the absorbents - The bites of Snake have been cured by the use of Emetics!!* In case of Surgaltus, the use of Emetics ~~are~~ is very ambiguous, but it may sometimes be proper - Chlorosis has been treated with Emetics - The anthelmintic properties of Emetic medicines having been known - I do not think they can be serviceable except the worms be in the stomach -

of Individual Emetics X

Vegetable and Mineral Emetics - of all the vegetable emetics the most important is Spécacuauba - this was unknown to Sydenham - it is a native of Brazil - it has been thought to be a violet, or convolvulus - but it is the produce of a Brazil plant called Calipot - The active part of the plant resides in the Bark - it does not give quite as much stimulus to the stomach - but it is the safest and most manageable of all the emetics in use - this article is employed in powder, wine, decoction, infusion, &c - The formula of the London Dispensatory for making the ^{Spécacuauba} Antimonial wine is the best - The dose for children 5 or 6 months is old is 60 or 70 drops - it seldom operates more than once - it is a certain Emetic - one grain of the

* Dysentery is spelled wrong all through this
book in

On Dysentery Dysentery

℞ Pulv. Ipecacuanha ꝑss xij Pulv. Opium grvj - Creta ꝑss xxiv -
m ft. doses viij -

powder will create nausea and sometimes actual vomiting - This accounts for the small doses formerly mentioned as used in Hemorrhages - In general the Specacuanha which is brought to us will not prove emetic in a dose less than \times grs and sometimes $\times 11$ grs - ^{ca}Specacuanha has been successfully employed in Inter-mitting Fevers - There is no disease in which Specacuanha is more used than in Dysentery - The infusion is generally employed - it never occasions that debility which follows the use of Tartarised Antimony - I have found Specacuanha to be an excellent medicine in Dysentery - I think it is one of the best remedies in this disease - my method of employing this medicine in this disease is Rp - Specacuanha 12 grs - Opium 2 grs - Creta 24 grs - M ft doses viij - I do not know that the Creta is any addition to the virtues of the medicine - The Specacuanha is often employed with Opium only & with great advantage - in this way the late Dr Church used the medicine in Dysentery - Dr Chisholm found the combination of Specacuanha & Calomel very beneficial in this disease - I think the Specacuanha is best adapted to Dysentery in which there is considerable hemorrhages - I do not think the formula mentioned would be very serviceable in cases attended with discharge of Cedilla or faeces in lumps - I think the cure of Dysentery by Specacuanha does not at all depend on a purgative operation - In acute Rheumatism we use Specacuanha in form of Dover's powder - In Dropsy, this medicine has been found highly beneficial - especially in Anasarca - The Specacuanha employed so as to keep up nausea has done much good in Phthisis Pulmonalis - I commonly combine 2 or 3 grs of Specacuanha with 4 or 5 grs of Creta - I give this 3 or 4 times in the day - I have found this medicine very serviceable, but I cannot say I have cured with this medicine -

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In Asthma the Spécacuanha is used - consult Dr. Akenhead -
the author says no medicine removes the spasm as soon
as this ~~medicine~~ - he gave 3 or 5 gr every afternoon in
chronic cases - his patients were at first nauseated
but they soon became habituated to the medicine -
In the Fluorid Asthma, our medicine has been found
very serviceable - an emetic given in the paroxysm
affords great relief - In Confluent Small pox, I have
given large doses of Spécacuanha with manifest advan-
tage - The smell of this medicine always produced
violent asthma in a pupil of mine now a
Dr Jones of Maryland - In Colica Hepatica as it is
called, the Spécacuanha has done good - it discharges
gall stones in many cases - The Spécacuanha when
~~admixed~~ mixed with a few grains of Opium destroys the nar-
cotic power of the latter medicine - I cannot explain
the operation of the medicine in this case but it may
be of great service in practice - it certainly opposes the
narcotic qualities of Opium - Spécacuanha is by
far the best emetic for the expulsion of narcotic
medicines from the system - stomach.

Spirea Rafoliata is a native Emetic - The root of
this is ~~sometimes~~ somewhat like the Spécacuanha -
The emetic property resides somewhat in the leaves &
stalks - it is used in the country in decoction or Tea -
in this way, we are unable to say what dose has been
taken - The best mode is to give the fine powder of
the bark in substance - it is an article well worthy
your attention -

4/30

Emesis

R^r super sulph^r Lini ℥ij. Rock alum ℥i Cochineal ꝑij
aque bullienti put i. in dose ℥ss -
15 minutes till it operates

Emesis

R^r super sulph^r Lini ℥ij. Rock alum ℥i Cochineal ꝑij
aque bullienti put i. in dose ℥ss -

Tobacco is an Emetic of great efficacy - externally applied to the stomach it produces powerful effects - The Squill is an emetic of importance - but it's also a diuretic - it is the root we employ in about 16 grs. when dry - when recent 20 grs. are a dose - some of the Aligrose plants are Emetic - as Horn Radish or Mustard infusion - these act very powerfully in removing narcotic matters from the stomach - a weak infusion of these articles restrains vomiting but a strong infusion is a certain emetic - There are the principal vegetable emetics - I would recommend to you the investigation of the violet.

Mineral Emetics - Super Sulph. Cupri - or Blue vitriol is an emetic medicine - 2 grs will generally purge - caution is always requisite in the exhibition of this medicine - it sometimes vomits gently but often with severity - This article has been used in S. Carolina in Cynanche Tachealis - we are told that it is the best emetic in this disease - dissolve 8 grs in $\frac{1}{2}$ pint of water and give a child a tea spoonful every 15 minutes until it operates - Most if not all of the saline preparations of Mercury when taken largely may be made to act as an emetic - The principal of these is the Sulphate Hydragryri - I think it one of the best emetic medicines in our possession - 5 or 6 grs for an adult 2 or 3 grs for a child - I have used this emetic with Squill in Dropsical cases - this combination makes a good medicine - The Super Sulph. Zinc is an emetic which acts suddenly - I think the Pocacuambas is a better emetic - The following is D. Monro's formula
 R Super sulph. Zinc Zij . Rock alum ℥i Lochnical
 ℥ss ij agua bulliant 1 pint M - dose ℥ss -
 This is the Vitriolic solution -

James's powder is a Phos. Calci et Antimonici —
 This has been called an Antimonial powder — but the powder of this
 name now in use are made a ballum — R Nitras potassee ʒi Antimon.
 Tartarisat grī sub mur. hydrarg. ~~grī~~
 gr viij — M ft pulv viij —

I have used this solution in Phthisis Pulmonalis — the disease has been relieved by the vitriolic solution but I never saw it do much good — The next emetic is Tartar Emetic — it is best to divide a few grains in a quantity of water and take a spoonful every 15 minutes until it pukes the patient — the practice of aiding this medicine in action, by the use of warm water is well known — Kermes Mineral is an antimonial emetic of some importance — it is used in Hydrothorax — the dose is 2 grs — The Urin. Antimon. is well known to you — This is a proper place to speak of Jamies fever powder — it has been used in Remittent and Intermittent fevers — the dose is uncertain — 12 grs are known to sweat purge & an often ʒj was requisite — the average dose should be about 5 grs —

Cathartica are such medicines as excite an evacuation by stool — they exert a decided effect on the fullness and frequency of the pulse and the heat of the body — they are indispensable in all Fevers — sleep often follows the operation of cathartics when well managed — this is an evident effect a maniac in an Hospital — they affect the mind considerably and a close attention of the mind to one subject delays the operation of cathartics — I venture to say that ʒj of Jalap would not operate on Bonaparte if he were to mount his horse and march at the head of his army to commence a contest which was to decide the fate of his Empire — the dose of cathartic medicines is very variable — the same dose of purgative medicine will affect the same person differently at different times — obstructed perspiration often produces purging — cold to the lower extremities is often a powerful purgative — this is particularly the case in delicate women and arthritic men — I have found great advantage from the affusion of cold water on the extremities of patients in Colica Pictonum —

* Had him on every thing, whenever you can
find him read him - he treats every subject with a
great deal of learning, a sound judgment & with all
a modest diffidence. - Dr. B. with all his class. elled.
Bot. & nat. Hist. is cakes & gingerbread compared with
Cullen -

Requies mixture

R. Renum Ricini ℥ij - Pulv. Garalini ℥ij Sugar ℥ij Aqua ℥vi
Soft mixture - dose ℥ss 3 or 4 times in day -

+ of China -

Rhubarb grips less than Jalap - I mostly combine Calomel with it - I use Rhei 15 grs. Calomel 4 grs - the purgative quality of this article is attended with bitterness and this renders it somewhat tonic - some deny its antispasmodic quality but this is not correct - it seems to grip by the kidneys and colour the urine - it acts in some cases as a diuretic - Rhubarb is one of those medicines which is absorbed into the course of the circulation -

White Walnut is somewhat like Rhubarb - it is obtained from the inner bark of our Butternut - it acts easily on the stomach and does not grip much - when well prepared it operates in the dose of grs. ʒ. - This article has been called a narcotic but I never saw this quality in it - it is admirably adapted to Dysentery - The bark may be dried and powdered and this powder operates in 20 or 30 grs - it is known by the name Pygma -

Jalap is a native of South America - the medicinal activity resides in the resin - the gummy part is not Cathartic but diuretic - Cullen says that it operates better when triturated with Crem. tart or sugar and in this way children take it - I do not agree with Cullen that Jalap is proper for children - I know it to grip more when combined with Crem. tart - I always combine it with Calomel - The powder of Jalap operates in dose of 15, or 20 grs - This preparation of Jalap is the best - 2, or 3 grs is a dose for children but I do not give it to them - the Ex. Jalap is used in practice - it is an anthelmintic medicine especially when combined with Calomel -

May Apple of our country is a purgative -

do you mean the Point or the root the manner
of preparing these articles & the parts used are not
designated -

+ perhaps - you would dry it first -

+ East Indies +

+ The Pyria +

it is best to combine it with Calomel - it is one of the best Cathartics in Autumnal Fever - I have used it with Crem. tart. the May apple is suited to the Intermittent fever - the dose is about 15 or 20 grs - this dose operates more than the same quantity of Jalap - it is less likely to prove Emetic - the article should be taken up in the time that the apple is perfectly ripe - the root may be then taken up and rubbed into a fine powder - the root is agreeable to many and injurious to none - an Extract is obtained from the root and it is a good Cathartic -

Helleborus Niger grows in the mountainous parts of Germany - for an adult the dose is 15 or 20 grs - the ancients used it as a purge in Melancholia -

+ Gamboge is an important Cathartic - it is obtained from various vegetables - it is best used in form of pills - I have never known it to prove Emetic as much as Jalap - it often purges in doses of 3 or 4 grs - it is a very active article

Aloes is a gum resin of a black colour - it is the produce of a vegetable - it is an important cathartic -

+ Scammony is the produce of a species of Convolvulus - the dose is from 3 to 11 grs - it is tutored with Sugar &c. -

Colocynthis is an acid Cathartic - the dose is from 4 to 10 grs - it irritates the intestines violently and sometimes produces bloody stools and convulsions - it is a most violent purgative and is used in France to cure Syphilis - women have purchased it to produce abortions -

Sulphur is used as a Cathartic medicine -

* Digitalis does not produce 'frequency' of the pulse
it has exactly a contrary effect -

* just now it gives space to the

it is a mild purgative and is well adapted to delicate habits - the objection to it is the disagreeable fetor which attends its operation - the principal neutral salt, is Glauber's salt - it does from $\frac{3j}{\text{ss}}$ to $\frac{3i}{\text{ss}}$ - it is a good Cathartic - Sulph. Magnesia is seldom used - Sulph. Potash is less often used by us - the French employ it in practice -

Diuretics - are such medicines as act on the urinary system, promoting the discharge of urine - we are compelled to use them daily -

Senna in the root or infusion is an useful diuretic - it is useful in Anasarca - it may be given in large doses - it is attended with considerable acrimony in the mouth and fauces - it is best to prescribe the powder in dose of $\frac{ss}{\text{ss}}$ 3 or 4 times a day - I use a saturated decoction or tea of the article -

Polygala senega is the ~~name~~ name of this article -

Digitalis or Fox glove is used as a diuretic medicine + it is narcotic and as great a stimulant as Opium - whether in powder, infusion or decoction it produces fullness, & ^{frequency} of pulse - a glow in the countenance, burning in the hands &c. - in Epilepsy it has been used - in Phthisis Pulmonalis it has been employed and does good in keeping down the pulse - I have seen it do infinite mischief in Hospital practice - I am willing to give up its use till I have tried other articles - I do not think it is a good medicine in Phthisis - I have used it in acute Rheumatism - I combine it with nitre - it is a good medicine in Dropsies - I refer you to Dr Wetherings book on this subject for further information -

It has done good in Hydrothorax combined into Squill —
 The best mode of giving Digitalis is the powdered leaf —
 give ʒj gr at first 3 or 4 times a day — it may be used
 in decoction — I combine the powder with Opium and
 I think it is improved in this way — it is sometimes com-
 bined with Calomel — if it does not produce good effect
 in 3 or 4 days, the medicine is not good — while this medi-
 cine is used in Dropsy the patient should drink freely —
 it seems to do little good in Ascites — in Hydrocephalus,
 it has been used — when we use the Tincture, begin with
 small doses — this medicine is used in suppression of
Urine — I have employed it with advantage — it is
 also used in Dysuria —

The Common Tobacco of our country is a diuretic
 medicine — I refer you to Fowler's book — I have
 not had much experience in the use of this medicine —
 the Juice of Tobacco has done great good in Dysuria
 and total suppression of Urine — an Infusion of the
 tobacco is also used — it is made by infusing ʒij of
 Virginia tobacco in liquor — give 15 drops at
 first gradually increasing —

Squill is a good diuretic — the root is employed —
 to an adult give ʒij 3 or 4 times a day — it is a very
 acrid medicine — I use it with Calomel or Sulph-
 Mercury — the article is often obtained in an imperfect
 state — it does little good in dropsy except it acts
 as an Emetic — this article is highly stimulant and it
 must be used with great caution — in Ascites, this
 medicine is used with advantage — I sometimes employ
 a Tincture made by mixing the powder of Squill with
 Ether —

Callicium or Meadow Saffron is a diuretic medicine —
Opium is often diuretic —
Artichoke is also a diuretic — Helleborus Niger is diuretic —

The Siliquose plants are diuretic - as Horse Radish.
 The alliaceous plants are useful in Dropsy -
 The Coniferous plants are diuretic - Bals. Copiaivi
 is also a diuretic - Some of the Neutral salts are
 diuretic, so are the Cantharides of the shops -

March 2^d 1860

Antilithics are such medicines as prevent the formation of calculus & relieve the symptoms of this disease - many of the bitter tones possess this property - the bittes without asturgeny as Anaphis Centaury, Camomile, & Meanthus are possessed of the property of alleviating the pains of calculi - The subutter Uva Ursi is an astringent medicine and has been used as an antilithic - The leaves are the part employed - they may be used in substance, decoction or tea - I think from experience that it is best adapted to Nephritic Gout - The dose is 6 or 8 grs every 3 or 4 hrs - a large dose is 3ss twice or thrice a day - this article certainly produces a great alleviation of the disease - this medicine favours the expulsion of calculi - I have known this to be the case - in Hematuria from disease of the Kidneys or bladder or from the indirect use of strong infectious, this medicine has done much good - The use of uva ursi has produced catarrhus vesicae - it has also produced stricture across the thorax - I do not however think there is a medicine which is more celebrated as an antilithic - that is a palliative of the pains of calculi - The Pyrola or Winter green has been used in this disease - Sea has been used as an antilithic - I have never used it - The Alliaceus plants are considered by some as palliatives of calculus - Serebinthimater have been called antilithics - Muriatic Acid is an antilithic in doses of 3 or 4 drops several times in 24 hours - Carb. soda has been used in Calculus -

Emmenagogues or Menagogues - such medicines as are said to produce discharge of the menses -

246

6 Mm. enragues

How

Vegetable little

Camomile

ellatrimony

Mercury

Sampson

Seneca

Sabena

Martha Pilgrimage

Rosemary

alliacious plants

The period at which the menses appear varies according to climate and other circumstances - heat seems to produce an evolution of the discharge - in some countries we are told that the catamenia does not appear monthly, but once every 8 months - I refer you to Roupeau on this subject - The preparations of Iron are excellent Emmenagogues - they are of infinite advantage - I give the Rubig. Ferri with oleum Sabinæ - Camomile flowers have proved menagogue - all the vegetable Bitters are also menagogues - the cold bath is well adapted to the Retentio Menses - a bath of brine or sea salt has been found very useful - well regulated exercise is necessary to the health of the uterine system - the Marriage State is certainly a tonic in some cases of this disease - Mercury is useful no doubt in this disease - it is set down among Emmenagogues by writers on Materna Medica - Campohon is an active medicine and is an useful Emmenagogue - Seneca snake root of our country is a powerful medicine and may be useful as an Emmenagogue - Dr Kartshorne has used it with success in many cases - The Mentha Pulegi or Penny Royal is used as an Emmenagogue medicine - The Rosmarinus, or Rosemary is an Emmenagogue - Asafoetida and the alliacous plants have done good in Retentio Menses - The Juniperus sabinæ is an Emmenagogue - it has produced Abortion - The Saivie is an universal stimulant - the oil of Sassa is a diuretic medicine -

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Notes on the ...

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Letter to the Honorable

the President of

the University of

the State of New York

in the

University of the State of New York

1811

John F.

John F. Nicholas

of the

University of the State of New York

3467
Notes on the Lectures

on Surgery &
delivered by

— Dr^s Physick and Dorsey —

— in the —
University of Pennsylvania

— 1009 — 10 —

Taken by

Thos. D. Mitchell

Philadelphia

Notes on the History

of the University of

Cambridge

The History and Description

of the

University of Cambridge

1799

John P. Nichol

of the University of

Cambridge

1799

4



The most simple accident that we are called to
 is produced by the contusion of a part without any
 external opening - next to this, the simplest accident
 is the rupture of a small blood vessel - the next is the
 rupture of several vessels - in these cases, if the cellu-
 lar membrane be ruptured, an effusion of blood
~~is~~ takes place, called Ecchymosis -

Union by the first intention is effected by the
coagulated blood between the cut surfaces - adhesion
Inflammation is affected by the divided vessels throwing
out coagulating lymph, which becomes vascular lymph
which is coming out of the cut surfaces

very early - the pericardium was full of blood.

It must differ in having an external communication -

those coagulated between cut surfaces and some cases

the first intention is not necessary with pain

The vessels are enlarged in inflammation as the Hunter
proved by experiment - he took a rabbit and froze
one of its ears - then killed it, injected both ears, and
on examination the vessels in the frozen ear were much
enlarged -

Inflammation is divided into healthy and diseased healthy in
flammation was formerly divided into five or six parts...

When inflammation is about to commence in a part there is
great vascularity in it, with heat, redness, tumefaction, and
in high inflammation, the functions of parts are for a time
destroyed as in phlebotomy &c.

The remote causes of inflammation are external & internal

or chemical. Chemical as heat, cold, caustics &c.

Mechanical as striking, rubbing, bruising, twisting &c.

The effect resulting from the mechanical causes are not always

8

In Echymosis cold water is the best application; if the tumour continue without inflammation, make a puncture with a lancet, thus the contents are discharged, the internal surfaces come together and union by the first intention takes place. A compress and bandage is a good remedy in Echymosis.

I once knew a man die on account of a rupture of a coronary artery — the pericardium was full of blood.

Wounds differ in having an external communication — blood coagulates between cut surfaces and union ensues — Union by the first intention is unaccompanied with pain.

A complete knowledge of inflammation is absolutely necessary to every surgeon. The simple act of inflammation is not a disease, it is nevertheless sometimes accompanied with disease. Inflammation is divided into healthy, and diseased. Healthy inflammation was formerly attributed to fire in the part. . .

When inflammation is about to commence in a part, there is great sensibility in it, with heat, redness, tumefaction, and in high inflammations, the functions of parts are for a time destroyed as in Ophthalmia &c —

The remote causes of inflammation are either mechanical or chemical. Chemical as heat, cold, caustics &c &c —

Mechanical as stretching, rubbing, bruising, dividing &c &c

The effects, resulting from the mechanical causes are not always

in the first, namely by the first infection with virus, in the second, a chronic inflammation, and in the third suppurative or ulcerative inflammation.

When we are about to perform an operation of importance we should always inquire into the patient's habits, mode of life &c. and if we find him accustomed to good living &c. the like, we should never proceed to the operation without due preparation.

I had a patient some time ago with a fracture in the wrist who became very greatly on the point of suppurating under this description, I applied counter and I had intended for the first, and in consequence of the great extensibility of his system without inflammation ensued and a great abscess was formed in the arm - the patient after much suffering, was acknowledged that this a sense of fear he had become me. Hunter properly divides the stages of inflammation into adhesive, suppurative and ulcerative. The adhesive

originates in the centre of the vessel of the part and extends to the circumference, the suppurative extends to the periphery, the ulcerative extends to the centre of the part. The adhesive is the first stage - the suppurative is the second stage - the ulcerative is the third stage. The adhesive is characterized by the vessel being filled with blood, the suppurative by the vessel being filled with pus, the ulcerative by the vessel being filled with blood and pus. The adhesive is the most common stage, the suppurative is the most dangerous stage, the ulcerative is the most fatal stage. The adhesive is characterized by the vessel being filled with blood, the suppurative by the vessel being filled with pus, the ulcerative by the vessel being filled with blood and pus. The adhesive is the most common stage, the suppurative is the most dangerous stage, the ulcerative is the most fatal stage.

by a Thermometer. The matter secreted in inflammation is a portion of serum and red globules, united afterwards by cellular membrane.

Extravasated lymph becomes afterwards vascular, forming cavities. Lymph undergoes some changes in passing through inflamed vessels. The effects of inflammation on the constitution vary according to its situation. Inflammation in tendons occasions violent pain. Violent inflammation in a part is accompanied with symptomatic fever—the pulse is hard, full &c—.

A man 36 years of age received an injury on the ankle, by means of a bar of iron falling on it and when I saw him, he was supposed to be dying—he was convulsed and affected with tremors—his extremities were cold—his pulse was small—he was relieved by a dose of Laudanum—I applied bread and milk ~~and~~ poultice to the part affected.

In inflammation seated in glands, the extravasated lymph is not absorbed—by these means scirrhous tumours are formed; the tinsel glands are evidences of this. Glands are enlarged by the extravasated lymph in them becoming vascular and such glands often become scirrhous; the breasts of women are instances of this—scirrhous tumours of this kind, differ from Cancer. Sharp made this remark long ago.

X Adhesive inflammation terminates by a large secretion of serum. Inflammation excited by cantharides terminates in this way. Thus also terminates inflammation of the brain, forming hydrocephalus—in the thorax, forming hydrothorax—A young man had an inflammation of the eye—an artery on the eye-lid gave way, by which the patient lost a great deal of blood, and thus inflammation was removed—.

ly a thermometer. The water secreted in the
inflammation is a function of serum and red globules sent
towards by cellular membrane.
Inflamed lymph becomes after much vascular
country. Lymph undergoes some changes in passing through
inflamed vessels. The effect of inflammation on the con-
stitution may according to its situation. Inflammation
in topical diseases is local. It is not contagious.
widespread as it is in the case of the blood.
A hard, feel to -

A woman 35 years of age received an injury on the side of
means of a blow of her falling on it and without doing
harm. He was supposed to be dying - he was examined and
affected with tumor his extremities were cold - his pulse
was weak - he was relieved by a dose of calomel
I applied blood and with this I resorted to the last effected
In inflammation seated in glands, the excretory ducts
is not absorbed - by these means retentive tumours are formed
the glandular are evidence of this. Glands are enlarged
by the excretory ducts in their becoming obstructed
and such glands often become tubercles; the breast of
women are instances of this. Various tumors of the
kind, differ from Cancer. A sharp made this remark long ago
addressing inflammation terminates by a large secretion of
serum. Inflammation excited by contused tumours terminates
in this way. This also terminates inflammation of the
brain, forming hydrocephalus - in the throat forming ep-
ithelioma - A young man has an inflammation of the
eye - an abscess on the eye-lid gave way, &c. which the
patient lost a great deal of blood, another inflammation
was removed.

If inflammation be not resolved, it will be followed by suppuration - we should sometimes choose suppuration - When inflammation supervenes in the summer season in consequence of a wound, we should not hasten resolution for fear of tetanus. In parts where much mischief may not be likely to follow, use resolution.

I have seen a opacity of the cornea occasioned in consequence of the patients fear of leaving me take a small quantity of blood from him, though the inflammation of the eye was very great. The indications in inflammation are First, To remove the remote causes. 2^d. To remove or lessen inflammatory action. Diet should consist of substances which contain but little nutriment - as tapioca, rice &c. broth is injurious - abstain from the use of ardent spirits. Amputation is an excellent auxiliary remedy - on this subject we shall be more full hereafter. Bloodletting is useful by diminishing the contents of the blood vessels. Purging is beneficial by the same action. Neutral salts with antimony lessen the quantity of blood in the vessels - Rest is necessary, the whole body should be kept still. Patient should be kept in proper temperature - use scarifications, cupping &c. in local inflammations. Inflammation occasioned by the system should be treated with general bleeding. A substitute for bleeding may be obtained by placing the inflamed part in an elevated position. When in the leg elevate the foot either by a cushion or raising the foot of the bedstead; thus we prevent the too great flux of arterial blood to the part. When an inflamed part feels very

* This does not accord with the bottom of page 10
 In the bottom of page 10 we should have
 inflammation - then inflammation in
 the summer season in consequence of a wound, we
 should not have resolution for fear of abscess.
 In part where which might be likely to
 follow the resolution.

I have seen a variety of the cases according to the
 of the patient fear of leaving me take a small quantity
 of blood from him, though the inflammation of the eye
 was very great. The inflammation in inflammation are
 it is to remove the remote causes. It is to remove the
 inflammation in inflammation in inflammation in inflammation

Suppuration always takes place when the remote
 cause is removed - inflammation in inflammation in inflammation

* the redness and swelling increase also - the part
 becomes softer - the part

& emaciation, nausea, vomiting &c -

Hectic fever has been attributed by Cullen to an absorption of pus, but this
 is incorrect - I argue and adduced

an abscess is a circumscribed cavity containing
 pus

Hectic fever occurs in inflammation of joint
 where there is no suppuration

+ there increase the suppurating surface -

The form of the fever is also called hectic following -

hot, moderate the heat by cold applications; this should not be used longer than is necessary to diminish the heat to a comfortable temperature. For this purpose we use preparations of lead. Spt. of wine - vinegar, val ammoniac - spt. mindereri fomentations, poultices simple or medicated - of the first, bread & milk or lintseed meal poultices - medicated, by mixing these with other more active ingredients. Blisters on inflamed parts are the most effectual - these render large evacuations unnecessary - - - - -

Lecture 2^d. Nov 15th 1809. Wednesday.

+ I proceed to speak of suppurative inflammation -
 When an inflamed part is about to suppurate, the pain
 + ~~in~~ decreases - after the formation of pus the pain is moderated.
 The sweating stage attendant on suppurative inflammation is always
 relieved by discharges of pus - hectic fever accompanies sup-
 -puration - the symptoms are small pulse, debility &c. the
 want of appetite on this increased
 exacerbations in hectic fever are in the evening - & morning - there are
 relieved by sweating - the urine is high coloured, deposits a
 copious sediment - hectic fever constantly attends sup-
 -puration of particular parts, those which are vital &c -
 the constitution sympathizes very readily with the suppuration
 of particular parts, vital &c - hectic fever has not appeared
 in some cases where large quantities of pus were deposited -
 hectic fever has sometimes been relieved and cured by dis-
 charges from issues + - In abscesses where no point is dis-
 -cernable, the cure may be promoted by making a small

X. previous to this a poultice should be applied where the pain of suppuration is severe use of opium -

+ This is equally correct with respect to an alseps of a joint -
Alseps, as sometimes opened by the death of a small part of
the integument.

x this may amount to a free incision into the

abscise —
o this we avoid a large scar —

[illegible]

5. The use of metric favors absorption

I have been very absorbed for some time in the study of the
eye by which I am purifying the mind's eye in the process

it is evaporated by Solut Sal Ammoniac

the drug does not react with the putrefaction - is not corrosive -
the blood vessels act as glands secreting pus.

* * the soft parts are absorbed —

- X puncture in a depending posture — in abscesses about the ^{or abdomens} thorax, punctures should be made soon lest the matter should form an internal communication and prove fatal by oppressing breathing — open the abscess as soon as matter is formed — in such cases it is dangerous to trust to those applications called drawing. In some situations abscesses are attended with great pain as in paronychia — this is relieved by an opening — large abscesses in parts, often occasion pain in the head, which is relieved by an opening of the abscess. I knew a lady who had severe pain in the head, which I perceived was occasioned by an abscess of the ^{calf of the} leg —
- X } Abscesses on the face should be opened early — abscesses tending to impede respiration should be opened very soon. There are two methods of opening an abscess — 1st by a Lancet which is the best made. 2^d By Caustics, rubbed over the abscess for 8 or ten minutes — this forms an eschar — I have seen pus absorbed by the application of Blisters.
- 0 Pus taken from a healthy sore is like cream, has a strong odour — its specific gravity exceeds that of water — does not mix with ^{unless agitated} water — Pus is distinguished from other fluids by the colour of its globules &c. &c. — On secreting surfaces, pus is soon formed — ^{Hunter supposed pus to be secreted from glands at the extremities of arteries —}
- 0 I proceed next to speak of Ulcerative Inflammation. In the ulcerative inflammation, large portions of the solid substance of the body are lost, leaving a sore. This takes place after suppuration is ^{begun} ended — sometimes it

19
(a) as in the formation of an eschar —

X it is this that nature opens an abscess —

(b) Ulceration in scrophula gives no pain —

(c) the color is a pale red —
the inflammation is in the cutis vera —

(d) sometimes attended with itching — the swelling

is less than in Blegmorous inflammation —

(e) consequently adhesions cannot take place between the
cells and thus the extent of the suppurative cavity is unlimited —

(f) — it feels like wet toe when sloughed away —

(g) the disease under the skin is often more extensive than it
appears to be externally —

there is no throbbing —

Emaciant is successful if used in the beginning

when suppuration takes place; make an opening
directly —

a) precedes suppuration as in the death of a part.

Prepare long continued with occasional formation of an ulcer. ^{Ulceration} ~~Suppuration~~ always takes place ^{most rapidly} ~~fast~~ on that side of a cavity next the external surface.

b) Ulceration when employed to separate a dead part occasions pain - I now proceed to speak of the varieties of Inflammation -

Erysipelas

In this there is great redness, pain, &c. - ^{preceded by hot fever} The red colour disappears on pressure, but returns when the pressure is removed - the pain attending it is of a burning kind -

(c) In this inflammation, lymph is never extravasated ^{coagulates} - ^{but serum only}

The cellular membrane becomes often gangrenous and (f) is attended with a foetid smell. This inflammation terminates generally in 10 or 12 days - On the face it comes suddenly - the skin is of a bright scarlet colour or

^{a dusky red} this disappears on pressure &c. - The tumefaction is not tense but very shining - small vesicles arise which when they burst, excoriation of the adjacent parts follows, which speedily take on gangrene - The remote causes are nearly the same as in common inflammation - The cure is likewise, nearly the same - bark, ^{is used in London} internally - blisters, small bleedings in some cases. Poultices are not very beneficial - Wheat or rye flour is good when spread over the inflamed surface. I have frequently used blisters with the most happy effects; suppuration, sometimes follows the use of blisters, without gangrene -

^{apparently} Edematous Inflammation
This exists in the skin, in anasarcaous legs; it appears

(a) It is similar to ~~Corynebacterium~~ *Corynebacterium* inflammation -

(b) - It is often attended with extensive mortification -
I have applied cloths wet with brandy -

(c) When inflammation pervades part of the gland, the secretion of milk is diminished, when the whole gland is inflamed there is no secretion - inflammation of the cellular membrane or skin round a gland does not affect its secretion -

(d) - the breast should be supported in a suspensory bag -

(a) in large scarlet spots — I come now to speak of Local
 (b) Inflammation terminating in abscesses as in the breasts
 of women. Mammary Abscesses

(c) It is very rare that inflammation takes place in the whole
 of a breast — it comes mostly in the glandular or adipose
 part — The first symptoms are ^{chilly fit & the} shooting, dull pains —
 these lead generally to an examination of the part, when
 hardness is perceived — the patient suffers great pain —
 These inflammations appear about the third month after
 delivery — it is said by some, that they exceed the pains
 of parturition — they end sometimes in suppuration —
 In some cases the inflammation occasions extravasation of
 lymph, thereby increasing the size of the gland by which
 obdurate tumours are often formed — The remote causes
 of this inflammation are mechanical, as too tight
 pressure, cold, blows &c — distention with milk —

In the commencement of the disease 10 or 16 ounces of
 blood should be taken from the arm — patient should
 live low ^{(purge) mercurial purg. in best} — warm applications, should be applied to the
 (d) part affected, as bread and milk poultice — the patient
 should lay still in bed — If inflammation do not
 subside, apply a blister to the part — Women have
 declared that an Epispastic gave no pain and I know
 that blisters have produced sleep when opium would not —
 When the abscess is formed and a point is evident, open
 it and treat it as ^a common sore. Where a large abscess
 is formed and point, at the top, make an opening in a
 depending position. Where patient were unwilling

Paronychia may exist under the Theca of
the tendons - under the periosteum - under the
aponeurosis of muscles and under the skin and
areolar matter -

§ When we use the Scalpel to open the finger, our incision
should be directly in the course of the painful sensations -

— In the 'intestine'

to have the opening thus made, I have succeeded tolerably well by introducing into the abscess, a bougie, and by drawing it out repeatedly, the pus has been discharged. Blisters in this disease are generally the best remedies. I shall speak next of Paronychia or Whitlow.

This is another local inflammation, occasioning severe pain - it generally appears on the end of the finger or thumb, but it is often situated in the whole length of the finger - the pain and danger depend on the situation of the disease. The hand and arm are frequently affected - the bone becomes often carious - the cause of this inflammation is difficultly assigned -

- 8 The cure is effected by discharging the pus and treating the sore as a common abscess - when there is much inflammation in the parts, use a wash made of Acet. Plumbi.

Lecture 3^d Friday. Nov 17th 1809

I ^{go on you} proceed to speak next of Psoas Abscess.

This is seated in the cellular membrane round the Psoas Muscle - many of the remote causes already mentioned in inflammation, may occasion that which precedes this abscess - this abscess occasions pains in the loins, tho' this is not always the case - a dull pain is felt in the thigh and downwards - the patient finds it difficult to stand upright - if these symptoms be not soon relieved there succeeds rigors, & suppuration which makes its way into the cavity of the abdomen -

8 The fluctuation which exists will ascertain that
it is not *Uernia* —

I proposed to speak next of *Uernia* (1844).

This is noted in the cellular membrane around the
lower tubule — many of the vessels are already
ruptured in inflammation, very common in the
pericardial sac — this disease occurs in
the lungs, but it is not always the case — a dull
pain is felt in the right and sometimes — the patient
is obliged to lie on his back — if these symptoms
be not soon relieved there is a great risk of
which makes it very difficult to observe —

+ as to make
pericardium

In some cases the abscess points at the upper part of the thigh. I have seen it point in the arm - the integuments round the abscess are never inflamed - the tumour is tense when the patient stands erect - when pressure is made on the abdomen, matter is forced down to the thigh - I have drawn from an abscess of this kind, two quarts of pus at once - Sometimes a vessel on the internal surface of the abscess is ruptured, and the hemorrhage proves often fatal - a carious bone some times is occasioned by this abscess - when the abscess appears at the upper part of the thigh, it is sometimes mistaken for hernia.

The treatment in the early stage of this disease is to keep the patient at rest - use a low diet - lose a quantity of blood from the arm - leeches to the part - cathartics are to be taken daily - blisters over the part are painful - if these will not answer, use issues -

When it is certain that suppuration has taken place, some practitioners have doubted whether the abscess should be opened, fearing the pus might enter the cavity of the abdomen - the patient's life is protracted by deferring the opening - very soon after an opening is made, the surfaces of the cavity become inflamed. (as Hunter says) - Abernethy proposes to make a puncture in the side, this does not expose the cavity and the pus is drawn off - this is not followed by inflammation - The opening is to be made with a lancet - by depressing the point of the lancet, we are enabled to puncture the cyst of the abscess - then cover the whole with linen - the puncture in this

In some cases the sharp point or the upper part of the
 bone seems to point in the canal - the integumentous
 the sharp are never displaced - the lower part
 when the patient moves - when pressure is made on
 the abdomen, matter is forced down to the tip - then
 comes from an abscess of the bone, the point of point
 once - sometimes a small matter external surface of
 the sharp is ruptured, and the drainage proceeds
 fatal - a carbuncle some times is occasioned by
 the sharp - when the sharp appears at the surface
 of the thigh, it is sometimes mistaken for a boil.
 The treatment in the early stage of this disease is to keep the
 patient at rest - use a low diet - use a quantity of this
 from the arm - leeches to the part - cathartics are to be
 taken daily - blisters over the part are painful -
 if the bone is not broken, use oil -
 When it is certain that suppuration has taken place
 treatment is to be used. Should the sharp be
 placed, fearing the pus might enter the canal of the ab-
 -dome - the patient's life is endangered by opening the
 opening - very soon after the opening is made, the
 contents of the canal become suppurative (as Hunter says)
 immediately proposed to make a puncture in the side
 this does not expose the canal and the pus is drawn off -
 this is not followed by any suppuration - the opening is
 to be made with a lancet - by keeping the point of the
 lancet, we are enabled to puncture the coat of the sharp -
 then cover the whole with linen - the puncture in the

case must be made longitudinally on the thigh — It is very imprudent to use probes, or directors, they are dangerous in being likely to rupture blood vessels and are of no service whatever —

After evacuating the cavity (as before mentioned by the introduction of bougies) 3 or 4 times in the space of two or three weeks, the size of the abscess will be so much diminished that it may be opened the whole length and will then be no more than a common abscess — I have tried this method and am pleased with it — I have not cured the complaint because complicated with caries — I have treated abscesses of the thigh in this manner with success — in some cases, punctures will not unite by first intention and inflammation ensues — I saw a gentleman 27 years of age with tumor on the thigh, supposed to be hernia — he had it 9 months and it was gradually increasing — he could not assign any cause for it — he had no febrile complaint — an examination of the tumour, fluctuation was evident — the tumor on the thigh increased on coughing — the swelling increasing, I thought proper to open it as Abernethy has directed — I did so — a quart of pus came away of a cream colour — after this another quart — I then closed it with Emp. adhaesiv — the patient was laid in bed — next day he felt an universal lassitude — giddiness — these were removed by purging, bleeding &c — his countenance showed marks of anxiety, hectic fever, small pulse were the symptoms, a flush

(a) The pain is of a burning kind

appeared on the thigh - I blistered the part - it was attended with fever - I took ℥xvi sang. from his arm - patient fell asleep and was refreshed - on the 4th day I dressed it but no union of surfaces had taken place - fever - I took ℥vi sang. patient was relieved - I perceived there was a caries of the lumbar vertebrae - I applied Issues - patient became hectic, in 8 months he died - On opening his body, I found an abscess extending a great length - the cartilages of the lumbar vertebrae were gone - patient had lost the use of his lower extremities previous to his death - I never saw a case in this country which was not complicated with caries of spine -

I next speak of Burns and Scalds.

There are accidents which often happen -

When excessive heat is applied to the body, its effects are in proportion to the extent of heat - it inflames violently on the surface of the skin - occasioning an effusion of serum - The morbid effects of burns are the death of the part.

Burns affect the constitution according to the degree of heat.

1 Coal steam destroys the part in ~~some~~ most cases -

2 Burns in a cavity, joint, or head are dangerous -

3 When burns take place in children, old people and in dropsical patients, they are dangerous -

4 Burns are dangerous in proportion to the extent of surface -

a deep burn in sound constitution is not always fatal - extensive superficial burns are dangerous, because the system is unable to react -

appeared on the thigh - I noticed the part of the
 timber with force - I took 300, very from his arm -
 Patient fell asleep and was refreshed - on the 14th day
 I stopped it but no union of surfaces had taken place -
 fever - I took 300, very. Patient was restless - I
 there was a course of the humerus vertebrae - I applied
 1000 - Patient became excited in moments of sleep
 in opening his body I found an abscess extending great
 length - the cartilages of the humerus vertebrae were gone
 Patient had lost the use of his lower extremities
 to his death - I have seen a case in the County which
 not complicated with course of spine -

I next speak of CURVED AND BOWED.

There are accidents which often happen -
 when exposure heat is applied to the body, in effect are in
 proportion to the extent of heat - it is common to find an
 in the surface of the humerus - according to the position of humerus
 the morbid effects of humerus are the best of the part.
 As humerus effect the constitution according to the degree of heat
 1. Cold humerus destroy the part in some cases
 2. Humerus in a cavity, joint, or head are dangerous
 3. Humerus takes place in children, old people and
 4. Surgical treatment, they are dangerous -
 5. Humerus are dangerous in proportion to the extent of surface -
 A deep humerus in some constitutions is not always fatal -
 6. Humerus superficial humerus are dangerous because
 the system is unable to react -

In burns when the life of the part is destroyed, when the pain of the heat is over, the patient does not complain of pain —

I now proceed to speak of the treatment of burns —

Applications to the part are

General

Constitutional

Local — Some authors recommend antiphlogistic remedies — we should vary them according to the state of the system — When the patient is low give him wine, barks &c — the pain is relieved by opium, when inflammatory symptoms are present, use bleeding — this treatment should be continued until suppuration takes place

The Local treatment is various —

I shall mention some remedies — Linen dist in Spt. of Wine — vinegar — holding the part before the fire — when the cuticle is burnt use oil & lime water — lead water — potatoe juice — these have been used successfully — The pain of a burn is different from that of common inflammation — the inflammation of a burn is more disposed to resolve than others — the fungus which rises is different from that of other sores — their cicatrises are different — Remedies must be used which tend to counteract the fire — an Spt Wine — Vinegar — Spt of turpentine with Basilicon are excellent — the last remedy is the best in use — great care must be taken not to lay this mixture on the sound skin — this produces inflammation —

It is of immense importance to be careful in dressing Burns -
 in a burn of the hand and fingers, dressings should be
 applied between each finger and a splint of pasteboard
 should be applied to the inside of the hand to prevent
 contractions - all depending parts should be treated
 cautiously - we should guard against unnatural adhesion -

Spt. of turpentine and Basilicon each equal parts is one of the best remedies in use — the wine is often impregnated with the adjuv of turpentine — Spt of turpentine always relieves the pain, tho' the flesh be even ~~is~~ bare — Dr. Rhys related a case cured by Kentish with Spt of Turpentine and Basilicon — ^{the whole surface of the body} was burnt — I have used this successfully — we are not always called in immediately to such cases — When ulceration takes place and fungus appears, this application is good.

Lect 4th Nov-20th Monday

The Cicatrices of burns contract sometimes so much that an operation is necessary to remove the great deformity — this is to be done by incision & dissection — I have seen the fingers connected by this contracting cicatrix —

Mortification

is the death of a part — the state of the system is very effectual in determining the remote causes — Mortification is of two kinds viz —

2nd with inflammation and preceded by inflammation
1st without inflammation — not preceded by inflammation

— The first kind is occasioned by violent contusions, intense heat or cold — patients often have their toes and feet dropping off by a mortification which comes on without inflammation —

containing bloody serum —

moderate amount of light —

regard to state of the system —

When inflammation followed by mortification

there is great pain —

in some cases this is very severe —

rub the parts with honey and put

put her in spirit water —

The secretion of serum is not so much

that an operation is necessary to remove the great

deformity — this is the case of some patients

I have seen the fingers connected by the contracture

of the skin —

the state of a part — the state of the system

is very important in determining the result of the

mortification — it is of two kinds —

first inflammation —

second mortification —

the first kind is accompanied by great pain

and is not so common as the second

the second kind is accompanied by a mortification

36 first blue, then purple, then black —

When a part dies it loses its colour — the cuticle,
O separates — when a small part suffers death, a mild
X poultice is the best application — when high inflam-
-mation attends the death of a part, evacuations
O are to be used — when the constitution sinks, quinine,
wine, bark, opium &c. — he related a case in which
mortification ensued by tying up the femoral artery —
this is not always the case in tying up this artery —
When a part has been exposed to intense cold, pain
X succeeds for a while, ^{half an hour} the part becomes red — its
sensibility is destroyed — the sudden application of
intense heat causes death to the part to which it is
applied — mortification sometimes takes place
when no remote causes are present —

Mortification with ^{preceded} Inflammation

There is a species of mortification which takes place on
the toes — an inflammation of a dusky red colour
is first seen on one of the toes — vesicles arise — bloody
serum flows out — the part then turns purple — then
mortifies — I once saw inflammation like this on
a gentleman's foot — an old woman was called
in and used what she called drawing salve —
When I saw him, there was a large space entirely
sphacelated — the mortification spread — the inflam-
-mation extended — the whole leg mortified and the
patient died — Opium in these cases is good —

When a part of the Court is called to the bar
 separate - when a small part is called to the bar
 practice with the rest of the Court - when a small
 portion attend the death of a peer, or a
 peer to be tried - when the Court is called to the bar
 more, or less, as the case is - it is called a case in which
 manifestation is made of trying up the former act
 this is not always the case in trying up the act
 When a part has been ordered to continue with them
 a recess for a while, the part becomes a case in which
 manifestation is made of the result of the act
 when a part comes back to the part to which it
 applied - manifestation is made of the result of the act
 when no remote cause is present -

Characteristics with Information

There is a species of manifestation which takes place in
 the law - an information of a party's action
 is first seen in one of the two - which is in - which
 is first seen out - the first then turns purple - this
 manifestation - I once saw information like this on
 a gentleman's foot - and also on a woman's
 in and used what the called drawing robe -
 When I saw him, there was a large space entirely
 of the act - the manifestation of the act - the
 manifestation - the whole of the act - the
 manifestation - the whole of the act - the

Soft poultice — In mortification of the legs of this kind, some have advised to amputate — such an operation should never be performed while the mortification is progressing — we should endeavour to separate the dead parts from the living first by emollient poultices — At the earnest request of a patient I performed the above operation — I must observe that before I amputated, the mortification was proceeding up the legs — applications were made to no effect — I declared that the mortification would not stop by amputation — after I operated, all went on well for a few days — but the mortification soon rose above the stump and the patient died — pressure long continued occasions mortification — this is often the case on the Os sacrum — The symptoms preceding mortification are burning pain — high red colour when it comes on pain departs — colour changes — tumefaction subsides — small blisters arise round the part — into these red globules are effused — the sensibility of the part is destroyed and it soon undergoes the putrefactive fermentation — Balsams &c to the part must be avoided — Incisions and scarifications in most parts are injurious — the remedies to be employed in most cases are either General or Local —

If inflammation continues, evacuation are necessary—pain is relieved by the use of Opium the strength must be supported by nourishing diet—The local treatment consists in removing the exciting causes—when mortification is likely to ensue from confined pus, open the abscess—After this the best application is bread and milk poultice—remove pressure—use the charcoal poultice—tho' this is improper until mortification is complete this poultice acts by its antiseptic properties—I have seen the fermenting poultice with charcoal used with advantage in correcting the fetid smell—when the smell is very offensive, wash the part with Nitric acid & dispersed in Aqua $\frac{1}{2}$ this is effectual in stopping the putrefactive fermentation—A second species of mortification is that peculiarity it assumes in consequence of the peculiar nature of the inflammation attending it. The inflammation preceeding carbuncle is violent—patients call it a burning pain—a kind of suppuration takes place + in the cellular membrane—good pus is not formed—carbuncles mostly occur in old people—they occur sometimes on the head, these are dangerous—they are more commonly found on the scapula or the about—

of inflammation continues, and the
 necessary - pain is relieved by the use of
 the strength must be supported by supporting
 diet - The local treatment cannot be removed, the
 existing causes - when inflammation is kept to some
 from confined part, often the abscess - after this
 from application is large and on the surface -

+ Caustic to eat out the
 the integument has been tried
 out, success - it is quick and
 the Warblers -

used with advantage in converting the
 when the vessel is very offensive, wash the part with
 other salt of silver in equal parts of
 festival in stopping the fistulous formation
 a second species of mortification is not present
 it appears in consequence of the peculiar nature of
 the inflammation attending it. The inflammation
 producing carbuncle is violent - patients call the
 burning pain - a kind of suppuration takes place
 in the cellular membrane - good pain is not formed
 carbuncles mostly occur in old people - the
 sometimes as the face, there are dangerous - the
 are commonly found in the vessels of the

The peculiarity of this mortification arises from the
 peculiarity of the inflammation attending it —
 The mortifications in these cases must be treated
 as other mortifications — by exciting inflammation
 in the sound parts adjacent to the diseased — the mort-
 -ification in the latter is arrested. In attending to
 numerous cases of this kind, I was struck with the
 + idea, that blisters applied in the sound flesh near the
 affected part, would arrest the mortification —
 I have tried this and found it to answer my ex-
 -pectations — I will relate you a case of mortif-
 -ication treated in this way — Capt. R. Allen had
 violent inflammation round the perineum oc-
 -casioned by using ^{an} ~~ast~~ smart instead of paper for a
 necessary business — mortification commenced —
 leeches were applied to the parts inflamed —
 over the mortified part and on the entire surface
 of inflammation a blister was applied which
 completely arrested the progress of mortification —
 in the worst stage of disease bark was given —
 the mortified parts sloughed away and the patient
 got well — I related another case in which a most
 alarming mortification was arrested by Chipmunk's
Blisters in carbuncles are excellent remedies —

Contused wounds are divided
 into Lacerated Punctured
 and Gun Shot Wounds -

It is applied above the knee
 he came there is here only me
 home

Lect 5th Nov. 22 — Dr Dorsey Wednesday
Of Wounds

Wounds are breaches made in parts which have an external communication — they differ with regard to their extent and to the nature of the instruments inflicting them — 1st Incised wounds are made by sharp instruments — 2nd Contused wounds by rough instruments — 3rd Lacerated or gunshot wounds — a wound in the same part made with a sharp instrument, pours out more blood than when made with a rough instrument — this is easily explained — in an incised wound, the injury extends no further than the cut surface & coagulation ^{does not} easily takes place — the vessels in contused wounds are injured beyond the divided surfaces — in contused wounds, the hemorrhage is stopped 1st by the diminished power of the vessels 2nd By lateral pressure 3rd By the death of the part —

In incised wounds, the surgeon's object is to stop the hemorrhage — with this view, a tourniquet must be applied ^{above} ~~over~~ the wound — above the elbow & above the knee according to the situation of the wound — bandages first to be applied, before the tourniquet — guard against the anastomosis of vessels by ligature — every divided artery must be thus secured and sometimes the assistance of the tenaculum is necessary —

...the operation of the transculum is necessary -
every double artery must be then secured and
given against the resistance of vessel of the
being first to be applied, before the transculum
above the line according to the situation of the wound -
be applied ~~above~~ the wound - above the elbow &
remains off - with this view a transculum must
in various wounds, the surgeon expect it that the
the part -
reflected 2. By lateral pressure. 3. By the deep
- change is stopped by the diminished pressure of the
the divided vessels - a transculum must be put
the vessels in various wounds, and injuries before
surface of capillaries easily takes place -
wound the injury extends no further than the cut
stomach - this is easily explained - as in various
but more blood than when made with a sharp
some part made with a sharp instrument, forming
3. described a punctate wound - a wound in the
- wound 2. Central wounds of rough instruments -
- up them 1. Vicine wounds are made by sharp weapons
their extent and to the nature of the instrument which
external communication - they differ with regard to
Wounds are described made in part which have an

as in the fauces

When the wounded vessel is too high for the application of the tourniquet above it - place it on the divided vessel or take it up with a tenaculum - thus we must do with the inguinal artery - it often happens that the wound is so small that the blood cannot escape in such cases you must open it - arteries when cut, lay sometimes too deep to be taken up - Dr. Physick divided the internal ^{pudic} ~~iliac~~ artery in an operation ^{for lithot} ~~omy~~ it was situated deep and could not be seen - it could easily be felt by pressing it with the finger - with the tenaculum he took it up and tied it - here the pulsation of the vessel was his guide - arteries are sometimes so situated that they cannot be secured by ligature - here we must use compression with sponges - astringents &c - if these fail, we must have recourse to the hot iron -

After the hemorrhage is stopped, the object is to bring the edges of the wound into contact -

Adhesive Plaster is used for this purpose, spread on linen or fine leather - there to be applied in a transverse direction, about $\frac{1}{4}$ inch distant from each other, to admit the escape of blood, serum or pus - if either of these be prevented from escaping, the divided surfaces will be kept asunder occasioning large Abscesses -

When the woman is too high for the application
 of the tourniquet above it - place it on the dorsum
 of the pelvis or take it up with a towel - then
 insert it into the vaginal cavity - it often happens
 that the woman is so small that the band cannot pass
 in such cases you must open it - either when out
 by sometimes, too deep to be taken up - By which
 divided the internal ^{artery} ~~artery~~ in an operation
 it was extracted deep and could not be seen - then
 easily felt by passing it with the finger - with the
 tourniquet he took it up and tied it - here the
 position of the vessel was his guide - either one
 sometimes he extracted that they cannot be seen
 by ligature - here we must use compression with
 fingers - restraining it - if these fail, we must
 have recourse to the last way -

After the hemorrhage is stopped, the object is to
 bring the edges of the wound into contact -
 Adhesive Plaster is used for this purpose, when
 a thin or fine leather - there to be applied in
 a transverse direction, about 1/2 inch distant
 from each other, to admit the escape of blood
 serum or pus - if either of these is present from
 bleeding, the divided surface will be kept in
 permanent large blood vessels -

In cases of simple incised wounds, the cure is effected in 48 hours frequently - the inflammation requires some attention - here, bloodletting is necessary, rest, low diet - if the wound is not inflamed and weakness is present give animal food - wine &c -

The practice of bringing the sides of wounds together by Emp. adh. is mostly practicable - wounds occasioned by glass are exceptions - there are centured wounds Emp. ad. & bandage is sufficient to keep the edges of incised wounds together - In incised wounds on the anterior part of the thigh, keep the leg flexed & foot extended - the reason why adhesive plaster is preferable to suture, in soft parts, is because the patient suffers greatly in sewing - it makes likewise another wound - ligatures excite suppuration - therefore dispense with these if possible - Sutures are indispensable in some wounds, as in the lobes of the ear, lips, nose &c - Wounds in the abdomen are to be treated with suture - this is to be used sometimes in scrotum - in wounds of the scalp different kinds of sutures are used viz - interrupted and twisted suture -

Centured wounds - These are made with blunt ^{instruments} ~~instruments~~ - there is a division of continuity and sometimes disorganization of the part - there is little hemorrhage - when the wound is extensive the patient suffers great pain, we use anodyne &c to obtain rest -

Dover's powder - composed of Pulv. sal. Nitri $\frac{1}{2}$ X Pulv. opii
 gr. i - Tact. Ant. gr. $\frac{1}{2}$ - soft poultice to be applied composed of milk
 and bread - these are the best applications to the contused parts
 until they slough out - If inflammation should come
 on accompanied with fever, use blood letting, cathartics,
 but these are used with more safety in winter than summer;
 If gangrene come on, give opium, bark, puter, good diet
 according to circumstances - when a contused wound
 becomes a healthy sore - if the swelling has subsided, ap-
 proximate the sides together with Comp. Adh. the treatment
 is now the same as in incised wounds.

of. Punctured Wounds - These are generally made
 with sharp pointed instruments; the external opening
 is small and contracted in proportion to its depth; they are
 attended with great irritation - in these as well as in lacerated
 wounds, probes should not be used - they are injurious by
 tearing open the wound - we should never use them except
 when extraneous matter is present - if it is necessary to
 dilate the opening, this must be done immediately after
 the wound is inflicted - if inflammation come on use
 a moderate diet, venæ sectio, sudorifics - it is scarcely
 ever necessary to make an opening to search for extra-
 -neous bodies - these are generally discharged by suppuration
 if matter forms beneath the surface and is prevented from
 escaping by the smallness of the opening, dilate it -
 If it should be necessary to dilate the opening in order to
 take up any vessels that may be divided, do this at the
 first dressing - convulsions often ensue from small
 punctures - these are relieved by enlarging the wound.
 (look at page 56)

Cases related where opacity of the cornea was produced
which lasted for a considerable time but was finally
removed by the use of mercury —

O do this with the point of a lancet —
x also the pith of Ispaghol in infusion —

Lect 6th Nov 24th 1869 - Friday - Dorsey
 of. Particular Wounds

Wounds of the eye lids - In incised wounds of the eyelids where no loss of substance is sustained - close the edges by Comp. adh. when this will not do, use sutures - in stitching, take care of wounding the adnata; pass the needle thru the skin & cellular membrane only. In some instances, the globe of the eye is wounded - this may happen by pieces of sand, iron glass & getting between the lids - in other instances, the internal parts of the eye are wounded - as with shot - a young man in blowing rocks, had his eye pierced by fragments of the rock, in these cases the pupil is often obliterated - the lens and its capsule adhere - there require some remedy - remove the extraneous matters when possible - use bleeding, purging
 X milk &c - no antiseptic medicine to be used - the eye lids must be kept closed - the patient must be kept in the dark - by these means, opacities, suppurations &c may be prevented - opacity of the cornea may be afterwards removed by a surgical operation - this to be described hereafter -

Wounds of the face - in these if the edges be kept in close contact, union by first intention will take place - in contused wounds of the face, apply a poultice - when granulations arise, apply Comp. adh. to draw the edges together - When the lips are cut completely thru and no loss of substance sustained Comp. adh. is sufficient - in some cases of cut lips, use the interrupted suture -

{ Dr Physick in 1811 objects to the use of
 stitches altogether as useless and hurtful —

Dr P read a case from Med Commentaries where
 trachea and oesophagus were divided patient
 supported by nutritive injections — stitches were used
 at first, but prevented the wound from healing —
 they were removed and the lead bent and the
 wound then healed completely —

X I saw a case of this kind in an old woman
 who stuck a pen knife in the oesophagus —

Sometimes the anterior part of the tongue is cut —
 this must be treated with the interrupted suture — if
 care be not taken, the surgeons finger will be bitten, this
 may be prevented by placing a piece of wood between the
 teeth — feed the patient with spoonful victuals —
 when the ear is cut, use sutures —

Wounds of the Throat

There happen in cases of suicide — when the skin is only
 wounded the treatment is easy — Sometimes, the trachea
 is cut, also the oesophagus — in these cases the hemorrhage
 is to be attended to — secure the vessels by ligature even if
 the carotid artery be cut — when the hemorrhage is stopped
 close the wound by Emp. adh. if trachea be divided
 join it with suture — the stitches are to be passed thro the
 cellular membrane outside of the trachea — if the stitches
 be passed in the trachea, they occasion coughing —
 afterwards the patients head must be kept bent for-
 ward and secured by bandages — it will be best not to draw
 the edges too close together — when with this, the oesophagus is
 open, the danger is increased on account of the difficulty of
 closing the wound — Depault introduced the catheter into
 the oesophagus, to inject nourishment — a wound in the
oesophagus to be joined by the interrupted suture — if coughing
 occurs, use demulcent remedies — oesophagus maybe cut
 without opening the carotid artery — case related of this kind —
 in some cases, the pharynx is wounded without in-
 juring the larynx or trachea —

(look at page 50)

In July 1795 a young man run a nail in his knee - it gave him very great pain - anodyne was given at bed time - the morning after the accident he had a severe pain in his head - complained of sickness - his wound felt easy - pulse quick and frequent - his eyes were heavy - conceiving that an enlargement of the external wound would relieve the pains in the head, a director was passed and the wound opened - his pains were immediately relieved and in a week all was well - when punctured wounds occur in warm weather on the extremities or any where else, do not heal the part too quickly - give the patient good diet - by suffering the inflammation to remain in the part, we are likely to avoid tetanus

Dorsey 7th Lecture 8th Monday - November 27th 1809
Of Wounds of the Thorax and Abdomen

Wounds often penetrate through the covering of the thorax and abdomen, which sometimes prove dangerous - The danger attending these is increased by the injury likely to be done to the contained viscera. If the thorax be perforated, unless the wound is small, air will enter the cavity, and respiration will be thereby injured - if a vessel be wounded the hemorrhage ensuing may be dangerous - in case of an intercostal artery being wounded, it has been recommended to pass a ligature round the middle of the rib - the sides of a wound in the thorax will heal readily ~~heal~~ by first intention, with the use of Emps. adh. - this cannot be done if the wound be made by shot - they kill the flesh which soon sloughs out - a young man was shot by the accidental

discharge of a fowling piece - the contents of the gun passed
 through the right side between the 7th & 8th ribs and about 3 inches
 from the sternum - when Dr. Physick saw him his pulse
 was quick and frequent - bleeding was resorted to - purging
 &c. the wound was dressed with a poultice confined in canvas
 bag to prevent any of the poultice from getting into the cavity of
 the Thorax (for if any should get in, violent internal inflammation
 would be the consequence); on the 4th day, there was a serous
 discharge from the wound - the fever lessened - the serous dis-
 -charge was the effect of increased action of the internal vessels.
 in consequence of his fever he was bled - in twelve days
 he lost 120 - sang. on the 14th day - the serous discharge had
 become purulent - in a short time it granulated - in con-
 -sequence of the external opening being pretty large, some
 air must have entered; writers on surgery (Bell &c) give many
 directions for drawing air out of the cavity of the Thorax; but
 this is of no importance - in the case related it was quite
 unnecessary - Hunter says, air in a cavity does not ac-
 -cuse inflammation - a case related - patient wounded
 in the Thorax - the wound was full half an inch long -
 wind entered largely as was heard by placing the ear to the opening
 yet no method was employed to discharge it - the wound was
 completely closed with stumps of Comp. adh. - Cured -
 we see no reason why the air may not be absorbed like
 any other fluid - we think it really is absorbed -

X have a needle on each end of
the ligature —
when granulations arise and stitches are loose
remove them and apply Comp adh.

In the wound of the intestine blood flows from
arterium there is depression, coldness, tremor &c.

— the intestine is always preceded by constriction
if the intestine is constricted in any part, it will
return the vessels into the intestine — they will pass
the force through the intestine —

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the force

Of Wounds of the Abdomen 3

These merit particular attention on account of the viscera lying beneath — When these wounds are superficial — the common treatment of incised wounds may be used — If the integuments be completely divided, we should endeavour to obtain union by the first intention — as the edges of the wound will be approximated difficultly by the use of Emp. adh. we must often have recourse to suture — the interrupted suture is best — pass the needle from the inside of the belly, sutures about $\frac{3}{4}$ of an inch from the edge — the peritoneum is to be taken up in the stitch — the stitches are to be made $\frac{1}{2}$ an inch from each other — tie none of the stitches until you have done sewing — if you suppose any of the viscera injured, search for the injured viscus — if the stomach or intestines be wounded danger arises from their contents being thrown into the cavity of the abdomen, thereby occasioning peritoneal inflammation, which generally ends in death — In almost every case where the external wound is large, a piece of intestine is protruded — if the injured viscus be the stomach, there will be a vomiting of blood — nausea comes on — depression of strength — cold sweats — tremors &c. — and if then be not relieved very soon, death will occur — this last takes place mostly in the space of 3 days, tho' sometimes in a few hours — Death arising from wounds of the abdomen is always preceded by Coma —

If the intestines are wounded in any part, stitch, and return the stitches into the intestine — they will pass with the feces through the intestines —

+ The difficulty is lepered of giving this nutriment
as liquid &c.

A case was related in which a man who shot
in the intestine - the shot passed per anum so
that an abscess must have been perforated, yet
no incision was made to reach the wounded intestine
and the patient got well -

In cases of ruptured intestine or stomach, we must take great care in the administering of nourishment - Spoon-victuals only can be used - where the wound is in the stomach, injections should be used instead of taking food by the mouth - a case related in which the stomach was perforated, & the patient was nourished with injections -

Longitudinal wounds of the intestine, union is more difficultly effected than in those that are transverse -

If a portion of intestine be bruised, it may be cut away with safety, for you often take away large portions, in hernia - when you cut out a portion of intestine unite the ends by suture - 4 stitches are generally sufficient for this purpose - return the intestine with the stitches into the abdomen - if the duodenum or mesentery be wounded and hemorrhage come on, use ligature - the ligature must be left outside - if you put the ligature into the cavity with the duodenum or mesentery, inflammation will ensue -

if the injured part of intestine be not protruding owing to the small external opening, it becomes a quæstion, whether we may dilate the wound - we may dilate a little - I would not enlarge much - recovery from wounded intestines has happened, when no dilatation was made - in these cases adhesive inflammation went on internally, on the internal surface of the intestine - when this is the case, a low diet is necessary, with bleeding, purging &c -

In wounds of the intestine made with shot, the contents of the bowels are apt to be thrown into the cavity of the abdomen - When an intestine is wounded, if the external opening on the

[Faint, mostly illegible handwriting, likely bleed-through from the reverse side of the page. Some words like "granulations" and "ulcer" are partially visible.]

X the urine will flow externally until granulations arise

[Faint, mostly illegible handwriting, likely bleed-through from the reverse side of the page.]

[Faint handwriting on the right margin, possibly from an adjacent page or a separate note.]

Abdomen be not large enough to admit a view of the injured intestines, let it be stitched - give very low diet as bread and water - Laudanum to ease the pain - if fever come on bleed freely - fermentations - blisters - when a wound penetrates the right hypochondriac, you are to suspect the liver - when this is wounded, there is severe pain in it - if the right lobe be injured, there will be felt a pain in the shoulder - this is the same kind of sympathy which exists between the shoulder & liver in Hepatitis - small wounds of the liver heal after readily - large ones prove fatal on account of the large blood vessels - in these the blood flows externally as well as internally - if patient survive this, peritoneal inflammation is likely to ensue which mostly ends in death - all that can be done in such cases, is simple & ineffectual - rest - barley water for the patient's food - if by these means the hemorrhage stops - the low diet must be continued -

Wounds of the gall bladder are fatal - when the kidneys are wounded there is a flow of bloody urine - a wound in the posterior part of the kidney is
 X not dangerous - if the kidney or ureter be wounded it is certainly fatal, on account of internal inflammation - if the smallest quantity of urine gets into the cavity of the abdomen, death ensues - if the cellular texture be wet with urine, it mortifies speedily -

Lect. 8th Nov. 29th Wednesday - 1809 -

of Wounds penetrating the Cavities of Joints -

These demand immediate attention. In incised wounds of the cavities of joints, great care should be taken - anchylosis sometimes follows - in such cases the limb must be so situated as to keep the sides of the wound in contact - this is to be done with Comp. adh. They use sutures -

If you use sutures, do not pass them in the capsular ligament of the joint - the integuments only must be taken up - wounds of the joints, if care be taken heal kindly - a case related of wound in the joint of the knee - patient got well in a week by the keeping the leg perfectly straight and still - They have used this method with success - a case related - wound on patella with a hatchet - it was dressed with Comp. adh. - he had used opt. Turp. on it - patient was confined 4 months - he could not bend his knee - when he attempted this, he had convulsions - pus was discharged in considerable quantities - bled, purged & blistered - an abscess formed in the joint - leg became oedematous - this was removed by purging and bleeding and the patient recovered - the joint remained somewhat stiff - If a splint had been applied previously at first, it would have done well - In every case where a wound penetrates one of the capsular ligaments, a splint must be applied to keep it still - they moderate the swelling -

The splint from Luber Ischii; ^{to be} applied below the head of the Tibia extending to the Schuin —

When the cavity of a joint is opened by a lacerated wound — union by the first intention ~~must~~ ^{cannot} be obtained — join the edges by extension ^{of the limb} — a poultice to the wound ~~as well as pressure~~ — use bleeding, leeching, blistering &c — very low diet — purging if not painful — when granulation arise use Pmp. adh. — it would be improper here to use Sutures, or even sticking plaster — tension is thus increased — let inflammatory symptoms subside — use poultices until suppuration ensues — then draw sides together by Pmp. adh. — if edges can be thus united, then it will do well — when the edges do not inflame, there is frequently a discharge of synovia which inflames it — In extensive lacerated wounds, ^{of joints} it is doubtful whether the patient will live, if the ends of the bones are hurt — In such cases a question arises whether we should amputate or not — mortification sometimes ensues — amputation — in other cases the functions of the system are destroyed or disordered & delirium follows — Case related — a lacerated wound of the Ulna at its junction with the Radius — patient would not have it amputated — it was extended by the attending Physician — if the patient had have lived he would have had a stiff joint — the edges of the wound were kept together by Pmp. adh. — This was a wrong practice — a poultice would have been better — the attending surgeon was of the old school — the patient had nausea & vomiting —

had great pain in his arm and could not sleep -
 Opium was given in vain - droppings were taken off 4th day
 poultice applied - purging commenced 7th day delirium
 violent - had to be confined in bed by straps -
 gangrene took place - pupils of the eyes were contracted
 convulsions followed and the patient died - this mode
 of treatment was very incorrect -

If a patient under this mode of treatment do evade
 mortification - tetanus is likely to follow or if this
 be not the case, he will be teared with suppuration &
 hectic fever and if he survive this, anchylosis will
 follow - the effects of lacerated wounds on the constitution
 are not easily known - the danger of these is greater
 if they happen in summer - I speak of lacerated
 wounds, where the ends of bones are fractured - the
 danger of these wounds greater in intemperate
 than those of moderate habit - young people more
 likely to recover than old folks -

We often succeed in curing these wounds - the stiffness
 frequently follows, by the inflamed ^{and} capsular ligament
 of one bone uniting to the other - the cartilage between
 bones is frequently absorbed, this is effected by granulation
 arising on the injured surface of bones, these absorb the
 cartilage, thus an anchylosis or bony union is effected -
 you now see why surgeons have advised amputation


Division of Nervous System

X After resection of the pain continues for
2 or 3 days respect the partial division of
nerve

in these cases - as the sawing off a bone is painful I think the object might be obtained by scraping the cartilage away with a knife -

Wounds of Nerves & Tendons

The entire division of a nerve occasions for a moment severe pain - inflammation is said to take place round the wound - I now guard you against an operation much recommended, that of cutting down to the bone -
 x If there be a violent pain - we might suppose a partial division of a nerve - here we might make an incision - I have never seen a case in which such an incision was necessary - a substitute might be made for the incision - the same remarks are true of tendons when made with clean instruments, these wounds generally heal - when the wound goes below the tendon or nerve there is severe pain and delirium - relief is directly obtained from the entire division of tendons and nerves - the early application of blisters generally gives relief - the division of the fascia gives relief - the tendons are sometimes cut thro' - the edges of the wound must be kept close with bandages &c - Tendo achilles is often cut - a splint must be used - a strap and bandage - apply Comp. adh. - wounds of Tendo achilles is important the sides must be kept close - I Monro has proposed a set of machines to keep foot extended & still - Dr. Physics splint to anterior part of the leg



+ some extension may be made of peroneus
longus and long flexor of the great toe -

The ancients were in the habit of keeping the cut edges of tendons together by suture - The fracture or rupture of the Tendo achilles happens in jumping, dancing or by exerting on any account the strength of the Gastrocnemius muscle - After the accident, the patient cannot extend the foot so as to raise himself on his toes - the ends of the tendon may be felt by examining above the Os Calcis - The rupture of some of the fibres of the Gastrocnemius muscle often happens in consequence of violent exertion - I knew it to be produced by jumping over a very wide gutter - the sensation described by the patient is that of a blow on the part - a cracking snap is heard - patient cannot walk in the usual way - at first very little pain is felt - but if care be not taken, inflammation supervenes - there will be a kind of ecchymosis from extravasation of blood - patient must either sit still or lie down in bed - if inflammation subside, he will be soon able to crawl about - if too much exertion be now used, the part will be again ruptured and the former symptoms appear - all these accidents are to be treated on the same principle - In the rupture of Tendo achilles, it is absolutely necessary to extend the foot - and in that of ruptured Gastrocnemius muscle to keep the edges close and part still - In the division of Tendo achilles, if the skin get between the edges of the wound, you must join the integument with 2 or 3 stitches - these stitches are to be made in the skin only - I now show you an apparatus or machine for

these accidents - it is simple and can be made by any person accustomed to carving in a little time - I had one made by a carpenter in 2 hours - of cedar or any light wood* direct your workman, to take with a piece of paste board, the exact shape of the sides of the leg & foot extended - by stretching the foot on the leg and cutting the paste board in the shape from the outside of the knee downwards to the toes - having the shape of the sides, he is next to lay a piece of paste board on the anterior part of the leg and foot extended - cut exactly - then he has three sides, or bearings from which, if he be a workman, he can easily form the machine - The machine is to be laid on the leg and a bandage passed round the heel & foot over the splint - then another bandage on the calf of the leg -

Wounds of the Veins,

These occasion little trouble - the hemorrhage is easily stopped - They are apt to become inflamed on the inner surface or I should not have mentioned them - I will read the observations of Hunter on this subject -

The coats of large veins passing outward thru the integument become inflamed - under such circumstances, suppurative will probably take place, and unless care be taken, there will be abscesses formed -

Inflammation of veins often happens, where no tendon or nerve is wounded, so that the vulgar notion of this inflammation arising from wounded tendon or nerves is mostly false -

The cause of inflammation in veins is owing to the wound not uniting by the first intention -

Inflammation in a part of a vein is frequently carried along the course of the vein - when the inflammation of veins is extensive, the constitution will sometimes sympathize - when the inflammation is extensive, we cannot use a compress on the vein, because the pain attending such treatment could not be endured -

Bell's method of cutting the soft parts down to the bone is imprudent and unnecessary - I have cured inflammation from a wounded vein by the use of a blister over the part - perhaps it is well to put a piece of lint over the wound before applying the blister; A young woman in the Plover Hospital was bled in the median vein - in few days it was followed by inflammation, like the erysipelas - I applied a blister over the part and it was cured - the arm sometimes remains bent after recovery from inflammation - I knew a case of this kind - I have always found blisters successful -

- + They were supposed to make a distinct branch
of Surgery of Surgery —
- O the livid color, vesications, ichorous discharge &c &c
lead to a supposition that the wounds were poisoned —
The antidotes were all acids and gangrene often
followed their use thereby —
- + I shall ~~show~~ show you that there were not
poisonous nor burnt —
- O when a ball passes with great velocity it kills
the parts with which it comes in contact —
- Hemorrhage is apt to occur in these wounds
during the stage of sloughing —
- When a ball does not pass violently the sides
of the wound are not killed and usually the
first intention often cures —

December 4th 1869 Monday

Of Gun shot wounds.

When fire arms were first applied to the purposes of war, wounds occasioned by them were considered to be + poisonous. Some have said that venom was sent into the wound with the ball, others that there was carried into the wound a quantity of fire - the slowness of these wounds to inflame, the sloughs that are cast off were the reasons which induced the ancients to think doctormen by - By examining the nature of a gun shot wound, I hope I shall be able to give you some light on this + subject - a gun shot wound is formed by the forcible and quick shocks received from a musket &c - the often partake of the nature of lacerated wounds. - the injury done is in proportion to the velocity with which the ball is carried - when the part is much contused, union cannot take place, until the dead parts slough out - in deep seated gun shot wounds, where large portions of flesh slough away, it is necessary to watch when the slough is about to come away - as violent hemorrhage may follow the discharge of the slough - Some gun shot wounds unite by first intention - when a ball passes from one side of a part to the other, the orifice out of which it passes is found to heal before that at which the ball enters -

Dilate also where respiration is likely to be affected
from the pressure of the ball — also where there
is great hemorrhage a large dilatation might be made
to take up the bleeding vessel —

o where symptoms of injured brain exist —

Some practitioners would remove that part of the
cranium over which a ball had passed, saying, if
it would otherwise die — we must attend to the
symptoms —

If fragments of bone are so situated as to be easily
extracted, by dilatation, this must be done —
where the ball lies very deep do not dilate —

o a sac is formed by which adhesive inflammation

Wise man relates the case of a man who was shot on
the outside of his thigh — the ball was found on the inside —
inside —

o or lintree — the poultice must be continued
until suppuration ensues —

+ except in particular cases —

o a dose of Dover's powder —

+ Rambo advises this —

The enlargement of a wound must not be attempted if it can be helped — unless some circumstance render it necessary — as when the ball lodges near the trachea &c.

- In gun shot wounds of the scalp, dilatation is always required — if the cranium be fractured, it must be treated accordingly — the cranium require great attention on account of its important contents — when the cranium is fractured we must use the Trephine —

If fragments of bone or a ball be so situated, that they cannot be extracted, you must not dilate —

Cranby says the use of probe and director in these wounds is very improper — if you determine to search, says he make use of your fingers — probes and forceps often injure as much as the ball — balls remain often in parts for many years without injury, it is en-

- crypted — the wound of a ball is seldom straight, and this is a great objection to dilatation — balls have struck the shin and passed round the leg —

The best application to gun shot wounds is a poultice of bread and milk — all stimulating articles are to be avoided — most men after receiving a gun shot wound, have cold extremities, weak &c.

○ give sudorific medicines — it has been recommended by surgeons to bleed in all cases of gun shot wounds + indiscriminately — I am not of this opinion —

We should only bleed to moderate Inflam-
mation when too violent —

When the inflammation is in proportion to the
degree of injury done, it is always salutary —

In cases where inflammation soon subsides,
e.g. Rheumatism, Tetanus after wounds — a case
related to this effect —

If you want to perform amputation at once in
such cases, do not before inflammation subsides
or, if you wait too long for this, do it after inflam-
-mation has entirely subsided, else you will be
likely to induce Tetanus —

+ in substance a deconvulsion —

o These are compound fractures

Wounds of the spine are sometimes made by
balls — where the spine is wounded also where
the phrenic nerve passes off death is
the immediate consequence — when the wound
is below the part, general paralysis follows —

I believe it would be more correct to delay evacuation of every kind, until fever comes on - As bleeding immediately after the reception of a gun shot wound, it often happens that Tetanus ensues, especially in the summer season - a case related - a man was shot in the palm of the hand - he was bled by the surgeon and tetanus followed - surgeon was going to amputate the hand, under the idea, that tetanus would thereby be prevented or arrested - the man died before proper dressings could be applied -

I have seen another case in which amputation was performed - the injured part was a finger - tetanus came on notwithstanding - the amputation of a part, where tetanus is suspected, ^{or exists} will do no good -

As soon as suppuration is established, give bark & an invigorating diet - in gun shot wounds of the limbs, where the ends of bones are fractured, the pieces of bone that are detached, may be removed, but no force should be used to get away pieces of bone that are loose; the case is now to be treated as a compound fracture - of gun shot wounds of the head -

Dr. Rust saved the life of an officer, that in
the breast by taking away in a short time
3 1/2 lbs of blood —

Bullets often pass through joints — when the ends
of the bones are wounded, inflammation and
suppuration follows — when the wound is only
lacerated without injury to the bones, union by the
first intention may take place —
Sometimes, the parts are so much torn, that amputa-
tion ought to be performed immediately — The opera-
-tion should be immediate 1st Because by this we save
the patient in some measure from the danger of Tetanus
Tetanus — 2^d — Because you can persuade patients to
submit to operations directly after being wounded, better than
by delaying to a late period —
+ depression, hiccup & thirst

If there is great depression, nausea &c —

When treating Wounds of the Thorax, I said that bleeding
 to a great extent was necessary - if this remedy be not
 used, inflammation of the pleura is likely to take
 place - give your patient low diet - apply a poultice
 to the part - if there be much external inflammation
 apply a blister - bath sometimes around the spine oc-
 casioning Chorea or paralysis of the parts below the
 injury - if the wound happen above the Phrenic
 nerve, death is certain, on account of the interrupted
 action of the diaphragm, by which respiration is
 impeded - when the spine is injured lower down,
 patients often survive - Wounds of the abdomen are
 dangerous according to the injury done to the viscera -
 when the liver is wounded, there is great danger on account
 of the large blood vessels in that viscus - these are attended
 with great languor - in wounds of the gall bladder, the
 contents of this viscus are discharged into the cavity of the
 abdomen, by which violent peritoneal inflammation
 is occasioned - in wounds of the stomach, blood is thrown
 up ~~in vomiting~~ ^{in vomiting}; there is also an escape of some of its
 contents by which internal inflammation occurs -
 so with the intestines - in the latter blood flows per
^{anum}
 Wounds of the vesica urinaria are dangerous because
 the urine escaping, inflames the peritoneum - this is
 not always the case when the wound of the bladder does
 not communicate with the abdomen -

+ if their contents flow internally to the cavity
of the belly the danger is increased —

o until broken into form —

+ blisters over the region of the stomach if inflammation
rem. high —

+ and join the ends by suture —

Case related from Vienna — Gall passed trans-
-versely thro' the abdomen — adhesions formed in the new
whole course of the Gall, and formed an ~~entire~~
entire cavity —

~~the vis medicatrix naturae~~

+ When the Stomach or intestines are wounded, all that we can do is to order rest - the mildest food - bleeding + if the fever runs high - & superficial dressing;
 If any of the intestines be wounded, let the injured part be returned, except it be bruised, in that case, cut it away - I shall speak more of this when I come to talk of Hernia —

December 6th 1819 Wednesday

Hemorrhages are often stopped by the kind interposition of nature - on this subject Dr. Jones has written very plainly - when an artery is cut the blood leaps from it as it were (per saltum) & is of a red colour - from the veins, blood flows in an uniform stream - there is a contraction that takes place in divided arteries by which the orifice is closed - the artery is also drawn up - after much blood is lost, the animal grows faint, and this likewise assists in the stoppage of the hemorrhage - inflammation takes place between the edges of divided arteries, in order that the opening may be effectually closed - there is a clot of blood formed at the division of the artery and also a clot is formed within —

The internal clot coagulate, and the blood cannot pass -- though Nature often stops hemorrhages in small vessels, yet the surgeon should not trust to this in all cases -- artificial means must be resorted to in some cases -- the ancient were very little acquainted with the best means of stopping hemorrhage -- hence they were afraid to attempt the most trifling operation -- they were in the habit of applying styptic medicine, and if these did not answer, they used the red hot iron -- a Cautey as it is called -- this they applied to the bleeding vessels until an Eschar was formed, which put a stop to the hemorrhage -- but the Eschar was liable to come away and then the hemorrhage was again renewed --

Compression is the most powerful means of stopping hemorrhages in small vessels -- use lint, & small compress and bandage --

The ancient tourniquets were found useful in some cases, but their inconvenience has been the cause of laying them aside -- there are some cases where compression is the best remedy -- in a wound of the sole of the foot, which was attended with very troublesome hemorrhage, pressure on the anterior and posterior tibial artery stopped it --

The first thing I noticed when I stepped out of the car
 was a sharp contrast to the warm, humid air of the city.
 The air here was crisp and clean, a welcome change from the
 stifling heat of the South. I took a deep breath, savoring the
 coolness. The streets were wide and paved with smooth
 asphalt, a stark difference from the narrow, cobblestone
 lanes of the old town. The buildings were modern and
 imposing, their glass facades reflecting the bright sun.
 I walked down the main thoroughfare, my eyes taking in
 the sights and sounds of this new world. The traffic was
 orderly and efficient, a testament to the city's progress.
 I felt a sense of awe and wonder, realizing that I had
 truly arrived in a new place. The future was unfolding
 before me, and I was determined to embrace it with
 an open heart and a willing mind.

The popliteal was in one case wounded with a knife - there appeared great tumefaction in the ham - the blood had flowed into the cellular membrane - a large clot was formed at the divided edges of the artery - this stopped the hemorrhage partially - by wadding the blood flowed - rest for a while stopped the hemorrhage - then he continued 'till at length he was advised to keep in bed a considerable length of time - by this, complete union took place -

In most cases where large vessels are divided a ligature is the safest method - by ligature, the edges of the divided artery are brought together inflammation takes place - the lymph coagulates - a clot of blood is sometimes found as high as the nearest branch - inflammation takes place likewise external to the wounded vessel -

When called in, we should apply a finger over the vessel that is divided - by this we stop the hemorrhage - the tourniquet to be employed is Pictet's improved - before the application of the Tourniquet, we should apply a compress ^{above} directly over the artery at its division - then apply the Tourniquet with the screw directly

the first time we saw one of these
things - there appeared great numbers
of them - looking like small
membranes - a large lot was found at the
bottom edge of the water - the top of the
-ridge of the water - of which the
rest for a while after the discovery - the
is continuing till at length the water
has been a considerable length of time -
by the complete removal of the
the most cases where large numbers are found
a distance of the water - in fact
the edge of the water - and the
with examination took place - the
-water - a lot of blood & sometimes
high in the water - with examination
taken place before the water
was called up one of the things
seen the water for a distance - in the
the bottom of the water - the
-water - before the application
of the microscope, we found
which were the water - the
applying the microscope with the water

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over the Compress - then works the screw - this
puts a temporary stop to the hemorrhage -
when the tourniquet is thus applied, we should
clean the part and take away any dirt that
may be round the wound - after this we
should take up the artery with a Tenaculum
by this the hemorrhage is completely closed -
sometimes vessels are divided very high up,
here compression sometimes is the only resource -
you can by pressure on the subclavian artery
stop a hemorrhage in any of the vessels of the su-
- perior extremity - when vessels are divided
in the fauces or out of the way of the above remedies,
pressure with lint is to be used &c. -

when small vessels are divided in such situ-
- ations, use astringents - agaric, sponge cold
lint over the clean surface, previously dipped
in Spt. Turpentine - after the hemorrhage is
secured, bring the edges of the wound together by
Comp. Adh. (this has no reference to wounds in fauces) or
suture as the case may be - when the wound
is very deep, I leave a part of it unappropi-
- mated in order to allow the escape of Pus &c -
after the Comp Adh. is applied, I lay a piece of

linen over it - then I pass a roller over the whole - in the course of two or three days the sides of such wounds are connected - Sutures are hardly ever necessary - when we use them - it is generally, the Interrupted Suture - by interrupted suture we mean simple stitches, from one edge of the wound to the other - each stitch is tied separate - tho' not till after all the stitches are made - Sutures are very painful - they always produce suppuration - they are never necessary, except in wounds of projecting parts as the ear, lip &c. - in the scrotum - divided intestines &c. -

December 8th Friday

Ulcers - In your attendance at hospitals you cannot pay too much attention to the dressing of ulcers - I commence with explaining the common appearance of an healthy ulcer in a sound constitution - new flesh ^{grows} ~~springs~~ up on the surface, which we call ^{*What word is this?} granulations - before these are formed, a quantity of lymph is extravasated which becomes afterwards vascular - the pus secreted is of a cream colour - by suppuration, the inflammation

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[illegible]

and tumefaction of the sore, cease — granulations are disposed to unite with each other — granulations are apt to contract themselves, thus lessening the size of the ulcer —

By granulations being formed, Nature has to form less new flesh than would otherwise be the case — the next process in the healing of an ulcer, is the formation of new skin — this takes place when the granulations have arisen to a level with the surrounding skin — now the cuticle is formed — in some old ulcers the new skin does not begin to be formed on the edges alone, but likewise in the middle —

Of the Treatment of Ulcers — a piece of dry lint is to be applied on the surface of the sore — a piece of tow dipped in oil moistened with oil is to be applied to prevent it from drying up — a roller is now to be passed over it — nothing more is necessary — Mr Banton uses slips of Omp. adh. he first shaves the hair from the part, as when on the leg — thus dressings are more easily removed — the slips of plaster to be about 2 inches wide for large ulcers and long enough to go quite round the leg and leave 2 inches over — he applies slips over the whole surface of the sore — then a bandage is passed round the ankle,

, then down the foot to the toes — then upwards to the knee — dressings were applied early in the morning, because after the patient walks about, his leg will be apt to swell; I have tried Mr. Bantons method and am satisfied with its effects in some cases. I think he is wrong, however, in directing the whole surface to be covered with Omp. adh. — if a sore be thus dressed, all the matter will be retained on the surface of the sore — The ulcer will resemble one side of an abscess — the sore will be kept from healing.

I am persuaded from experience that it is best to apply the strips of Omp. adh. about $\frac{1}{2}$ or $\frac{3}{4}$ inch apart, to allow room for the escape of matter — I think it is best to make an incision in the strips directly over the sore — Mr. Banton speaks of the application of cold water to the bandage round the leg in order to moderate heat — I have never had occasion to ^{comply with} use his direction — Mr. Banton says patients may walk about when their legs are dressed as he has directed — if the bandage were well applied, walking might perhaps be admitted — but if the patient be contented with lying in bed, I am certain the cure will be sooner effected — There are however some indolent ulcers, where walking about does good —

We sometimes meet with sores in which granulation are slow in their appearance, and in which the edges though approximated with Omp. adh. do not unite)

here, we may meet the surface with spirits,
 Caustic Lunar, blue vitriol &c - Sometimes
 we must entirely destroy the surface & edge
 by a solution of Lunar caustic - This is not
 the case with ulcers in healthy constitutions -
 There are some ulcers which require more of the
 surgery and than we have already mentioned -
 When an ulcer is situated on the leg, the blood vessels
 and particularly the veins, below the knee are
 more active than those above - in a granulating
 ulcer on the leg, the new formed vessels are often
 incapable of sustaining the column of blood
 from above and of course the veins burst and
 then we see ulcers wear a bloody aspect -
 when the vessels are not too weak, so as to be
 broken, the column of blood sometimes stagnates,
 and hence we see ulcers often of a purple hue -
 these effects are apt to take place where the
 patient stands long, erect - the rupture of the
 blood vessels renders the pus of a bad quality -
 causes bloody serum - granulations are de-
 stroyed, and thereby rendering the formation of
 new ones necessary - place your patient
 in bed and keep him there until cicatrization
 is effected - rest is one of the best remedies in the cure
 of ulcers of the leg - Bandages must be used, they are

The first of these is the fact that the
 system is not a simple one, but a
 complex one, involving many factors
 and many different kinds of
 action. The second is the fact that
 the system is not a static one, but a
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 action.

of three kinds 1st The laced stocking 2^d The cotton roller - 3^d a Linen coat of Emp. Bell - Laced stockings when they fit the leg are very good - but they are not always easily obtained - Cotton roller answers very well and makes good pressure - the roller supports the weak vessels - one impediment in some cases to the healing of ulcers, is the oedematous state of the parts - when water is effused into the cellular membrane the parts are distended -

The oedema is diminished by a horizontal position - granulations do not appear quickly if the parts be oedematous -

It is very incorrect to stuff lint to the bottom of ulcers - this practice was formerly called dressing to the bottom - I know not the reason why this practice was ever adopted - it prevents the sore from healing - this is particularly the case in fistulas in ano - a cure is often effected by getting rid of these dressings - there was a man some time ago in Virginia, who had a fistula in ano, his surgeon dressed it to the bottom as he called it, till the patient got tired - he then had recourse to a simple remedy - he went daily as somebody advised him, and sat down in a quantity of soft mud at a certain creek - this had the effect of curing him,

and I really believe this remedy ~~was~~ better than that
 which he had been so long using in vain ^{sure - how queer it}
 Whatever impairs the health in any case, is liable
 to retard the cure of ulcers - very hot or cold
 weather - simple weakness of constitution affects
 ulcers -

December 11th 1809 Monday

1) Of Inflamed Ulcers - these are attended by
 a hot state of the parts - patient should be confined and
 use a vegetable diet - abstain from ardent spirits -
 bleed and purge - use bread and milk poultice -
 keep the patient in bed - I have succeeded in relieving
 the inflammation by raising the foot of the bedstead -
 when the inflammation is reduced, the sore is reduced
 to a common ulcer -

2) Fungous Ulcers - here the granulations
 arise above the surrounding skin - use simple
 compress with bandage - afterwards approximate
 the edges with Comp. Adh. when prepure does not do,
 use Lunar Caustic over the whole surface - when
 the granulations are reduced, it is no more than a
 common sore -

3) Ulcers in Oedematous legs - they are tender and
 painful to the touch - they have a great tendency
 to slough - if evacuations are contraindicated,
 raise the foot of the bedstead - when the inflammation
 is reduced, apply Comp. adh -

+ when the ulcer is reduced to the state of a
 simple ulcer treat it accordingly —

4 Sloughing Ulcers — these are owing to the weakness of the granulations — the cicatrix as it forms becomes of a purple then of a black colour — the part mortifies and then sloughs — in some ulcers, sloughing will be going on in one place, and sound skin forming in another — there is great pain in these ulcers — in this species of Ulcers, the remedies for mortification are to be used; barks to be given freely — opium to allay pain — a poultice with Laudanum is it is the best application — the following poultice with charcoal arrests the feston — In sloughing ulcers I have applied blisters over the sore with the effect of arresting the mortification — in some cases it often happens that maggots form — here Dilute Nitrous acid is excellent —

5 Ulcers met with in weak Constitutions — These granulations arise freely, but are extremely weak — they ulcerate in a few days and the sore enlarges — here use bark — Chlorine & — Granulations are often strengthened by affusion of cold water — Arg. Cit — union is a good application — I have used but bark wet with solution of oak galls, & Laudanum in all cases with success when the granulations were very weak — sometimes the new skin is absorbed and the sore enlarged — here I have used R. Galla —

6 Indolent Ulcers — When Nature in her operations has been interrupted for a long time, the ulcer becomes an indolent one —

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the edges become hard, round & tumefied - they rise above the middle of the ulcer - lymph is extravasated and not being absorbed, the edges become hard and the ulcer indolent - it is best to remove the edges entirely - this is to be done with the knife or with common caustic or pressure - use ~~a salt~~ the Common Caustic - a Calx and cum Kali. Junc Mercury expels the cure of sores - by exciting a slight Ptyalism - R. Myrrh - Dilut Nit and I Red Precipitate is used in ulcers -

7 Carious Ulcers - In these a part of the bone is dead and prevents the sore from healing when the dead portion of bone is loose & detached, we should extract it with forceps - then the ulcer is a common sore - when the carious bone cannot be seen it is important to know whether it is detached or not - we learn that bone is loose by passing a probe - when the probe is pushed down with force and excites no pain, we may be sure it is not loose - for when it is loose, the probe passing against it, gives violent pain - then we can ascertain whether we may enlarge the opening - the dilating the opening of a carious ulcer may be effected by introducing small pieces of sponge tent - increasing the size of the piece daily -

8 Ulcers accompanying Varicose veins

these resemble indolent ulcers - it is the state of the veins that prevents the ulcer from healing - here, bandages are very good -

we can remove the entire by taking up the Vena
saphena by a ligature — manner of per-
 forming this operation — the patient's leg being
 turned when he stands erect, this is the situation in
 which the patient should be when the operation is
 performed — this is the way Mr. Moore does it —
 but this is very inconvenient to the patient —
 before I operate I always apply a tourniquet
 above the thigh to compress the veins, but not the
 arteries — after the tourniquet is applied, patient
 may lie down — the leg operated on must be placed
 towards the light — the skin must be pinched round
 the vena saphena and a scalpel passed through,
 this will expose the vein completely — when the vein
 is sufficiently exposed, apply a ligature — before
 the ligature is tied, put the patient to bed — the
 edges of the wound must be approximated with
 P. m. p. adh — the inflammation is trifling — the
 ligature will come away in 10 days — I mostly re-
 move it in 5 days — the ligature is easily removed
 with a knife or scissors — after the ligature is
 applied, the blood passes in collateral branches —

9 Scrophulous, Cancerous, & Venereal Ulcers
 There is a species of ulcer left of Boils, in which
 the Ulcer enlarges —

Compound Simple Fracture is one
 that was compound — the external wound
 being healed it is reduced to Simple
 Fracture —

December 13th 1869 Wednesday

Fractures

A Fracture is defined to be a complete solution of continuity of a part of a bone - but fractures sometimes occur, where the bone is not completely broken - bones are more brittle in frosty weather; bones are sometimes broken by muscular action, as the patella - when bones of the extremities are broken, there is great pain - this is increased by muscular action - the bone is frequently distorted in its situation and likewise shortened - by taking hold of a fractured bone, we find it to admit of flexion - there is a crepitus -

Fractures are divided into simple and compound ^{and compound simple} simple fractures are those in which the bone is broken without any external wound or solution of continuity in the soft parts Compound fractures are those, in which besides the bone being broken, there is an opening or solution of continuity in the soft parts -

When the external wound is small we succeed in union by the first intention, as in a simple fracture - we must use such means as will keep the ends of the bone together - If inflammation come on, we must bleed, purge &c - there is seldom any difficulty attending the reduction of

December 19 - 1897

Fractures

It is a fracture is defined to be a complete or partial loss of continuity of a part of bone - but fracture is not complete unless the bone is broken into two or more pieces. A fracture is complete when the bone is broken into two or more pieces. A fracture is incomplete when the bone is broken but the pieces remain in contact. A fracture is compound when the bone is broken and the wound communicates with the atmosphere. A fracture is simple when the bone is broken but the wound does not communicate with the atmosphere. A fracture is comminuted when the bone is broken into three or more pieces. A fracture is depressed when the bone is broken and the pieces are driven into the soft parts. A fracture is displaced when the bone is broken and the pieces are out of their normal position. A fracture is comminuted when the bone is broken into three or more pieces. A fracture is depressed when the bone is broken and the pieces are driven into the soft parts. A fracture is displaced when the bone is broken and the pieces are out of their normal position.

fractures - when the action of muscles opposes their reduction, we must use means to relax them - ^{this} is to be done by copious bleeding, until the patient is likely to faint - then we can reduce the fractured limb and keep it so by the aid of splints and bandage -

Splints are made of different materials - as wood of different kinds - paste board - leather &c. I find the paste board for fracture of the fore arm to be the best - they are used by soaking them first in warm water - then apply them to the part - and in a few hours they will be perfectly dry, and fit the parts perfectly - when we use splints made of wood, they are to have linen ^{be} pasted on the inside - the splints to be made extremely thin - they can be made to fit transversely, but not longitudinally - between these splints and the limb, we must put tow, flannel &c. to fill up the interstices -

It often happens that we are not called to fracture, for many days after they occur - then, we find the part much swelled - here we must use bleeding, purging &c. - apply bread & milk ^{with little water} poultice to the swelled part - do not attempt the reduction of the fracture until the tumefaction subsides,

Rules for the Reduction of Fractures

Examine the parts daily until the tumefaction disappears — if there be much swelling use bandages so as to make moderate pressure — if they be applied too tight, mortification may supervene, and the fracture be changed to a compound one — bleeding is the best mode of evacuation — the position of the limb must be attended to —

The time necessary for the union of fractured bones is various and depends much on the constitution and age of the patient — young bones unite sooner than old ones — a fractured jaw is longer in uniting than a fractured limb —

In some constitutions bones never unite perfectly — in these cases it has been advised to cut down through the soft parts and saw off the edges of the bones — but this is a very injudicious practice —

Where the Tibia had been fractured and union had not taken place, I have directed the patient to move the limb as much as possible — thus fractured extremities are often made to unite —

a seaman had a fracture in the left arm above the elbow joint — his fracture did not unite & he had no use of the limb — in this state he remained 6 months — the connection between the ends of the bones grew looser and looser and

Notes for the Preparation of the

Preparation of the patient to be operated on is
 - appears if there be much swelling in the
 as to make moderate pressure of the
 to tight, manifestation may improve, and the
 fracture be changed to a compound one
 leading to the best mode of association - the
 of the limb must be attended to
 the time necessary for the union of fractured bones
 various and depends much on the constitution and
 off of the patient - young bones unite sooner
 than old ones - a fractured bone is exposed
 mounting then a fractured limb -
 in some constitutions bones never unite perfectly
 as this case it has been known to not unite though
 the soft parts and skin off the edge of the bone
 but this is a very uncommon fracture -
 when the bone has been fractured and the
 not taken place, I have directed the patient to
 move the limb as much as possible - this
 fractures are often more to unite -
 I have seen a fracture in the soft part of the
 the elbow joint - the fracture did not unite &
 he had no use of the limb - in the state of re-
 covered 6 months - the union was defective
 one of the limbs was not used

and looser - it bent as though a new joint had been formed - on examination I found ~~the~~ as the ~~meri~~ fractured about 2 inches above the elbow joint - patient was admitted into the Penn. Hospital - in May 1862 - I proposed to pass a seton through his arm near the fracture - this was done in Dec^r - it would have been done sooner but for the man's ill health - suppuration came on and the dressings were removed daily for 12 weeks - patient complained of pain in the part - in the May following the ends of the bone were united and the seton being removed, the arm got perfectly well -

another case was related of a fracture of the thigh & leg - the fractured leg did not unite - was treated with the seton - which was kept in 3 months - the ends of the bone united completely - one case related in which this practice did not succeed, though the failure appeared to be owing to the intemperate habits of the patient - the seton should be kept in at least 3 months to ensure success -

The operation for introducing a seton is not dangerous - any person completely acquainted with the anatomy of parts can do it -

The operation of cutting down to the bone and sawing away the ends, I have tried without success - it is a very severe operation - Boyer on the Bones quoted - he says it is a dreadful & painful operation &

it is practicable in femur and humerus only —

December 15 Friday

Fractures —

Simple fractures unite by the first intention only adhesive inflammation — the vessels ruptured at the time of fracture, lead into the fragments ^{of} bone; the blood which they pour out coagulates — becomes vascular and thus callus is formed — this at first is full of vessels — In compound fractures, this blood, is the bond of union in simple fractures, is lost — there is so much inflammation, that union by the first intention will not take place — instead of this there is sup-
puration — and the inflammation is sometimes so violent, that mortification soon follows — in compound fractures, when granulations arise, u-
-nion commences — Sometimes the external wound is an incised one, sometimes punctured and of-
-ten contused with the bone broken into many
152 pieces — Compound fractures are often attended with profuse hemorrhage — in the first case apply a tourniquet — if the vessel can be seen, take it up with a tenaculum

The next object is to know whether we must am-
-putate the limb or not — some are of opinion when the bone is much shattered and the soft parts greatly injured, that amputation should be

December 15, 1844

Fractures

Of the mode I have used in wounds of the part tib. art. is to take a pair of common dress up forceps and at their end to put a small needle armed with ligature - pass this down under the bleeding vessel which you can previously feel pulsating - then catch the needle with forceps, draw it through and tie the ligature -

X But the anatomy of the part, proves that cutting the fibula could not affect the post. Tib. artery -

Posterior Tibial artery

performed immediately - I would amputate directly - I have seen lives lost frequently by hoping to save the mangled limb - it is allowed by all that when the hemorrhage cannot be stopped, amputation of the limb should be performed - if you would do otherwise, it is probable the patient would be exhausted with loss of blood - I believe it is always in the surgeon's power to command the hemorrhage - dry lint has often succeeded - If the hemorrhage be so situated as it cannot be stopped at the orifice, perhaps we could succeed by pressure on a great artery leading to the wounded part - in a compound fracture of the leg, if the hemorrhage be great and the bleeding cannot be stopped by application to the wounded part, I would take up the Femoral artery. The amputation of a leg, in consequence of hemorrhage from the posterior tibial artery, has been performed. I believe the amputation was an incorrect procedure - & the posterior tibial artery might be taken up - I have done so in a similar case and though it was difficult to command the artery, yet by care I succeeded - ~~Mr~~ They recommend a portion of the fibula in such cases to be cut away - extensive mortification has been thought to warrant amputation, but while this is progressing, amputation is an incorrect step - for the mortification will in most cases proceed above the stump - if it suddenly and entirely cease, you may amputate - when suppuration is very great and hectic fever violent,

no one would hesitate to remove the limb — very few cases of compound fracture occur in which we are warranted to amputate — when the external wound is removed, the fracture is reduced to a simple one — When there is a piece of bone protruding, cut it off — when the muscles resist the reduction of the bone, remove this obstacle by relaxing the muscles — extraneous bodies must not be sought after if the patient have great pain from it — when the bone is reduced and the wound small, attempt union by the first intention — with Pimp. Adh. — thus a compound is reduced to a simple fracture — I have succeeded in curing compound fractures of the arm, thigh and leg in this way — the inflammation of a compound fracture is often very great — sometimes it is high, that mortification follows — or at any rate, extensive suppuration — the bone often exfoliates — to prevent all these the patient should be bled freely — applications to the part should be mild as bread and milk poultice — Surgeons have feared to use evacuations, saying that the patient would be sufficiently evacuated by great suppurations, never reflecting that the inflammation which first occurs, is the cause of after suppurations — when the inflammatory symptoms have subsided, these remedies are to be dropped — in case of mortification, use the remedies for this which have been already mentioned — In Compound fractures, bleed not until inflammation has commenced — the ends of the bones are to be placed in apposition —

The bones are to be placed in apposition —

December 18th, Monday

Fractures of the Nose

A fracture of the bones of the nose in the front very seldom occurs - in a fracture of the nose, the bone is generally ~~fractured~~ depressed - sometimes when the bones of the nose are fractured, symptoms come on which attend a depression of the brain - this is owing to a fragment being pushed upwards - the deformity which the fracture occasions proves the existence of the injury - if the fracture be not attended with depression, the remedies are simple - linen spread with some unirritating ointment may be applied - when the bone is depressed, we must use means to elevate it - this is easily done - when it is placed right, it is difficult to keep it so if the bone be much fractured - introduce a dossil of lint into the nostril directly under the fracture; cover the outside with mild P. M. & B. confine the patient to a low diet - the wound mostly heals in 3 weeks -

The Lower Jaw bone is sometimes fractured - this mostly takes place on one side of the chin; and very seldom, tho' sometimes at the symphysis; the fracture of the jaw is generally at right angles with the bone - I have seen the condyles broken off - I have once seen the alveoli with the teeth quite broken from the jaw and with this the condyle of the opposite side broken off - The coronoid process of

Fractures of the Fore

A fracture of the bone of the nose in the frontary position
 occurs - in a fracture of the nose, the bone is gene-
 rally fractured in two places - some times when the bone
 of the nose is fractured, the fracture comes on under
 a depression of the bone - the isosm of a
 fragment being pushed upwards - the depression
 which the fracture assumes forms the isosm of
 the injury - the fracture is not attended with
 hemorrhage, the hemorrhage is slight - the
 fracture is usually attended with swelling of the
 nose - the bone is depressed, the must use means
 to elevate it - the isosm of the bone is placed
 right, it is difficult to keep it so if the bone is depressed
 fracture - sometimes a splint is put over the nose
 - the splint is under the fracture; over the bridge and
 with the nose. The splint is fastened to the sides of
 the nose with thread or with wax -

The other part of the bone is sometimes fractured
 the must take place on one side of the bone
 and very seldom, the sometimes at the isosm of
 the fracture of the bone is generally at right angles with
 the bone - I have seen the compound fracture
 of the bone once when the splint was put over the
 bone from the side and with the isosm of the
 splint the fracture of the bone was fastened.

the jaw is seldom fractured - it may be broken
 off by the force of a musket ball - the resistance
 to the reduction of fractures of the jaw is easily man-
 -aged - the place of fracture can be easily felt -
 the patient has pain on motion - the bones are
 somewhat displaced - you find the row of teeth ^{not}
 on an equality - the surgeon can make one
 part of the bone pass over the other - the treat-
 -ment is generally simple - after the extremities
 of the bones are placed together, shut the mouth
 then pass a bandage round the chin, over the
 head - then you keep the whole still - some have
 said it would be best to apply a piece of
 rattle-board below the chin - this is needless -
 when the condyloid process is broken off, there is
 some difficulty in reducing it exactly on
 account of the action of the muscles - in such cases
 we can sometimes succeed by managing the front
 of the jaw - I know no other way we can do -
 a four headed roller has been advised, but a
 common roller answers very well - when the
 skin is very tender, dress it with soft diachylon,
 then apply the bandage - sometimes in a fracture
 of the lower jaw, the teeth next the fractured
 part are loosened - it has been recommended to

remove them - you should not do so - drawing the teeth makes an opening into the cavity of the fracture, thus changing a simple into a compound fracture - I have known patients to die with compound fractures of the lower jaw - when the teeth are loosened place them in their proper situation and never extract them - while the patient is under this disease, give spoonmeals - very little conversation should be kept -

The Vertebrae - are sometimes fractured - this is effected by some body moving with great velocity against the spine or by some violent motion of the spine - In every case I have seen, the fracture has been attended with dislocation - the spinal marrow has been depressed and a paralysis comes on of all the parts below - the spinous and transverse processes may be broken without this effect - when the fracture happens above where the Phrenic nerve goes off, the accident proves fatal directly - when fractured lower down the patient survives 3 or 4 days - in fracture of the Os sacrum the patient will survive for months but I have never seen a recovery - You can always on examination discover a crepitus - in every instance the rectum and bladder become paralytic - it is always necessary to introduce a flexible catheter, with a cedar plug in the end, so that the urine may be

When the fracture occurs above the 3^d cervical vertebra, death is instantaneous, because the diaphragm as well as the other parts subservient to respiration are paralytic — when the fracture is lower down, the diaphragm is the only ~~agent~~ active power in Respiration —

x Blood is sometimes effused into the cavity of the Pericardium — remove a portion of the sternum by a trephine and the blood may be evacuated —

drawn off 3 or 4 times a day — in making our ex-
-amination we should take care in moving the
patient — we should not turn the patient on the
belly, but on the side — in the former, suppuration
is to be feared — these accidents prove generally fatal —

December 20th 1869

Fractures of the Sternum — The sternum
is seldom fractured — I have never seen but
one case — when the sternum is broken and the
surrounding soft parts torn, inflammation
will be likely to come on — this is to be treated ac-
-cordingly — all that can be done in fracture
x of the sternum is to pass a bandage round so
as to keep the fragments in their proper place —

Fracture of the Ribs — these are often broken —
the fracture is mostly in the middle and is in a
transverse direction — sometime, the fragment pen-
-etrates the lung, by which wind is discharged —
pain is felt in the part and the surgeon can easily
perceive a grating between the ends of the bone —
patients cannot make full inspirations without
pain — the treatment in this case is a bandage
passed round the body as tight as the patient
can ~~be borne~~ bear it, so that the ribs be not

135
the bandage is applied so tight as to
prevent inspiration & expiration of the intercostals
the diaphragm is the chief agent

The fracture of a rib may be ascertained
by placing your hand over the injured part
and directing the patient to inspire — this
will occasion a crepitus —

elevated - the bandage to be left on until Union takes place - when pain supervenes - with coughing - difficult respiration &c. use bleeding, purging, low diet - barley water &c. - sometimes, without any fever, the cough is very distressing - thus violent pains brought on - under such circumstances, demulcent medicines are very good - how demulcent ^{I know not} can relieve coughing occasioned by a broken rib - In some cases the air cells are penetrated and air gets into the cavity of the pleura - this air often gets into the cellular membrane and thus the whole body is sometimes inflated - thus Emphysema is formed - when ^{we} find this progressing the only remedy is to make an opening between the inferior ribs into the ^{thorax} ~~lung~~ to let out the air - this may be done by a scalpel or a common trocar - this operation is not to be performed except when the cellular texture is likely to be inflated completely - Compression by bandage is the best mode of preventing inflation of the cellular texture

Fracture of the bones of the Pelvis is a rare accident -

I have seen the costa of the Thigh broken off - I never saw the Os sacrum fractured - I have seen the Os Pubis broken - by extending the thigh on the trunk we are rendered confident as to the existence of the injury - a broad bandage is to be passed round the pelvis and the patient must remain still -

motion of the fragments gives violent pain — patients recover in about a month — when inflammation comes on we bleed but purging is inadmissible on account of the motion occasioned to the pelvis — give low diet

Fracture of the Clavicle most commonly occurs about the middle of the bone, though it sometimes takes place near the sternal, or humeral portion — when it occurs about the middle, the humerus falls down considerably — the patient to relieve pain always bends to the injured side — the sternal fragment remains in its natural situation, but that which is attached to the humerus falls down with this bone — the fracture slopes from without inwards and forwards — If you raise the humerus upwards, you bring the fragments into contact and by this means a crepitation is perceptible — the patient cannot rotate nor raise his arm to his head — In these accidents it is important to know the causes of displacement of the bone — the first is the weight of the arm — another cause is the action of the pectoral muscles by which the humeral portion of the bone is drawn forward — the old surgeons used to apply a bandage in form of the letter ~~A~~ figure 8 —

but this bandage causing excoriation of the skin in the axilla, it was soon laid aside —

Despault has adopted a much better mode — he counteracts the action of the muscles by the following method — 1st he places a pad made in the form of a wedge under the armpit, with the sharp edge ^{downwards} upwards — but before this the arm is extended — then a bandage is passed round the body in order to secure the pad — now lay the arm down with the elbow close to the side — then pass a bandage round the body over the arm on the side where the bone is fractured — pass it once round the injured shoulder ^{then} under the arm of the opposite side — thus the pectoral muscle is completely counteracted — next a bandage is to be passed round the injured shoulder down to the elbow, then upward over and down again, to support the weight of the arm — then a sling is to be made for the hand — then it will be best to pass a bandage round the whole — before this put a piece of soft linen between the hand & the body to prevent the disagreeable sensation which would otherwise occur — before the extensor bandage is applied, feel the pulse and if it be lessened in force, loose the bandage, for

but the bandage causes excoriation of the skin
 in the axilla, it is not so bad as it is
 reported to be adapted to a much better mode
 he counteracts the action of the muscles by
 the following method - it is placed a few inches
 in the form of a wide band, under the arm-pit
 with the sharp edge upwards - but before
 this the arm is extended - then a bandage
 is applied round the top of the arm about an inch
 from the arm being cut with the other close
 to the side - then a few bandages round the
 body over the arm with the side close to the
 is fastened - keep it over until the wound
 should be united to one of the opposite side
 then the pectoral muscle is completely
 detached - next a bandage is to be applied
 round the upper shoulder down to the elbow
 then upward over and down again to support
 the weight of the arm - then a strip is to be
 made for the hand - then it will be best to
 keep a bandage round the whole - before this
 put a piece of soft linen between the hand &
 the body to prevent the disagreeable sensation
 which would otherwise occur - before the
 arm is raised - apply a few bandages and
 it is secured in place - leave the bandage for

The pressure of the pad on the brachial artery is too great — examine the fracture every two or three days — and the bandages will require some attendance every day, because the stiffness in all cases of fractured clavicle even though the bones be not displaced, this mode of treatment is the best — by these remedies there will be little or no deformity —

The Scapula is very rarely broken — I have seen the acromion process broken off by heavy bodies falling on the shoulder — the fracture of the acromion is easily ascertained — the deltoid muscle draws the fragment down and makes a vacancy — by pushing the os humeri up, you can place the fragments in their natural situation — the management of this accident is similar to the last — When the Angle of the Scapula is broken off, the existence of the injury may be known by a space being evident between the fragments — there is also a motion a grating noise — in this case it is necessary to fix the arm, otherwise the soft parts will be much irritated and inflamed — if pain and inflammation come on give low diet, use bleeding, & the antiphlogistic remedies — the ligament of the Scapula is seldom or never broken —

December 22nd 1809

Fractures of the Os. Humeri - These occur in the middle of the bone or at its extremities - the existence of this injury is ascertained by the crepitus which is evident on moving the limb - a bandage is to be passed from the hand up to the elbow and when extension and counterextension have been made so as to fix the fragments in their proper place, pass the bandage up the arm to the axilla - then 3 splints are to be laid on the humerus, over the bandages, one on each side of the arm and the other directly in front - then a bandage is to be passed to secure the splints - then the arm is to be laid close against the body with the arm and fore arm at right angles - a soft pad is to be applied between the patient's arm and body - then a support must be made for the hand and arm - this has been done by means of a common hand kerchief, but it is much better to pass a broad bandage round the body and over the arm and hand - then the fragments are kept at rest - this dressings may be removed in 8 or 10 days to see if union has taken place

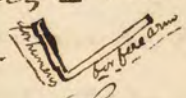
all Fractures of the Os. Humeri above the origin of the Deltoid muscle have been called fractures of the neck of the Humerus - these fractures are sometimes oblique and sometimes transverse - they are generally occasioned by bodies falling with violence on the limb -

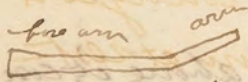
the inferior fragment is generally pushed in towards
 the chest and thus the fracture resembles a luxation—
 patients always complain of great pain—if he
 be a spare man, the fracture is easily ascertained by
 examination—sometimes a large Ecchymosis is
 formed and the space between the ends of the bone
 cannot be felt—but I have succeeded in discerning
 the nature of the injury in such cases by moving the
 arm and pushing the inferior fragment upwards,
 by this a grating noise will be evident—
 When the os. humeri is dislocated and its head pro-
 truded forward into the axilla, there is a considerable
 cavity under the acromion scapulae; in the fracture
 above mentioned there is also a cavity under the a-
 cromion, but it so very small, that the original
 rotundity of the shoulder is still preserved—thus
 you will be able to distinguish between luxations
 and fractures of the Os. Humeri—it is of importance
 to attend to the circumstance of the Ecchymosis before
 spoken of—by neglecting this, patients have been
 supposed to have received merely a contused wound,
 when a fracture had really taken place—thus de-
 formity is often produced—you should always
 keep this circumstance in view and pay attention
 to the appearance of the shoulder—by extension and
 counter-extension the fracture is easily reduced—to do
 this, it is necessary to put a thin pad between the arm

the splints must extend above the
upper end of the humerus —

and Chest - This will prevent the inferior fragment from being pushed inwards - after the pad is fixed in this situation, secure the arm with 3 splints and proceed as directed before - this fracture is generally well in 5 or 6 weeks

The os. Humeri is often fractured just above its condyles - the surgeons can easily know the existence of the fracture, by the crepitus which is evident on motion of the arm - the condyles of the os. Humeri are frequently broken off - the fragment is so very small that a bandage and splints round the arm cannot fix it - the fragment will be moved by every motion of the fore-arm -

In the treatment of these two injuries, it will be best to fix the fore arm by splints - The splints are to be of an angular form -  one leg of the angle to be laid on the humerus the other on the fore arm - one of these splints is to be fixed on each side of the ^{fore arm} form - and one rather smaller but of a similar shape to be placed on the front, and one on the back of the arm and fore arm - then fasten the whole ^{Before putting on the splints,} by means of a bandage ^{is to be} passed from the hand to the elbow - when the fragment is to be fixed by means of extension and counter extension - then pass the bandage up, covering the elbow completely, till the whole arm is covered - then lay on the splints as above men-



A splint in this shape is applied 20 days after the rectangular splint, in order to prevent the natural angle of the arm from being reversed, - when the injury is so great to the joint at first as that ankylosis will probably occur there, use the rectangular splints altogether for the ^{fore} arm if ankylosed to the arm in a flexed state will make a better limb than when extended -

tioned - then, fix these splints by means of another bandage passed from the upper part of the Os Humeri or in other words from the upper part of the Splint. then proceed downwards to the hand - thus the motion of the fore arm is completely arrested & thereby the action of it on the fractured condyle is prevented, so that the fragment is now at rest - the limb is to be fixed against the trunk of the body and supported by a sling =

Without care be taken the limb will be disfigured this is when the external condyle is broken - In order to prevent this, after union had made some progress, I have succeeded better by applying straight splints to extend from the hand near to the head of the Os Humeri - one is to be placed on each side and to be fixed there by means of a bandage - the splints are to be somewhat angular to form the natural angle formed by the humerus and fore arm -

Fractures of the Fore arm - It often happens that only one bone of the fore arm is broken, and sometimes both are fractured and at the same place - you can easily bend the arm at the fractured part, and by this a grating is perceptible - patients with this fracture cannot use the arm in any way - a bandage should be applied from the hand to the elbow - but it is necessary to be careful not to apply it too tight - else the space between the two bones might be filled up and the power of

The first of these is the fact that the
 human mind is not a blank slate, but
 is filled with ideas and impressions
 from the world around it. These
 impressions are not always accurate,
 but they are the basis of all
 our knowledge and understanding.
 The second is the fact that the
 human mind is not a passive
 receiver of information, but is an
 active participant in the process.
 We do not simply receive information
 from the world; we interpret it,
 we give it meaning, and we
 use it to guide our actions.
 The third is the fact that the
 human mind is not a single entity,
 but is composed of many different
 parts, each with its own functions
 and responsibilities. These parts
 are the senses, the memory, the
 imagination, and the reasoning
 faculty. Each of these parts
 plays a role in the overall
 functioning of the mind, and
 they all work together to create
 the unified experience of the world.
 The fourth is the fact that the
 human mind is not a static entity,
 but is constantly changing and
 growing. Our knowledge and
 understanding of the world
 expand over time as we learn
 more about it. Our perceptions
 of the world also change as we
 experience new things and
 encounter new challenges.
 The fifth is the fact that the
 human mind is not a purely
 rational entity, but is also
 influenced by emotions and
 feelings. These emotions and
 feelings can sometimes lead us
 to make irrational decisions,
 but they can also give us the
 strength and motivation to
 overcome our fears and
 achieve our goals.
 The sixth is the fact that the
 human mind is not a purely
 individual entity, but is also
 shaped by the culture and
 society in which we live. Our
 beliefs, values, and attitudes are
 often influenced by the people
 around us and the traditions
 of our culture. This social
 influence can be both positive
 and negative, but it is an
 important part of the human
 experience.
 The seventh is the fact that the
 human mind is not a purely
 physical entity, but is also
 influenced by spiritual and
 religious beliefs. These beliefs
 can give us a sense of purpose
 and meaning, and they can
 also provide us with a framework
 for understanding the world
 and our place in it.
 The eighth is the fact that the
 human mind is not a purely
 conscious entity, but is also
 influenced by unconscious
 processes. These unconscious
 processes can sometimes lead
 us to make decisions and
 take actions that we are not
 fully aware of, but they can
 also be a source of great
 creativity and insight.
 The ninth is the fact that the
 human mind is not a purely
 individual entity, but is also
 influenced by the collective
 mind of humanity. Our
 shared knowledge and
 experiences shape our
 individual minds, and our
 individual minds in turn
 shape the collective mind.
 The tenth is the fact that the
 human mind is not a purely
 static entity, but is also
 influenced by the passage of
 time. Our perceptions and
 understanding of the world
 change as we grow older, and
 our experiences and memories
 shape our current thoughts
 and feelings. The human mind
 is a complex and fascinating
 entity, and it is the study of
 it that has led to some of the
 most important discoveries in
 the history of science and
 philosophy.

pronation be lost - ~~the~~ straight splints are to be in readiness, long enough to reach from the hand to the elbow - The hand is to be placed in the manner in which it is fixed when we shake hands - that is erect - the humerus is to be held still, by an assistant - the Splints are now to be applied on each side and a bandage is to be passed round them from the hand to the elbow - after these dressings, the arm is to be fixed in a sling - Union mostly takes place in about 5 weeks the splints in all these cases are to be made of paste board -

It often happens that the Radius only is broken - the place of fracture is about $1\frac{1}{2}$ or 2 inches above the wrist - patients lose their power of rotation - the surgeon can easily perceive a grating, by the smallest motion -

The Ulna is seldom fractured alone; it occurs when great violence has been given directly to this bone - the treatment of the fracture of one bone is similar to that of the other and exactly the same as when both bones are fractured -

December 2nd 1843

the trees, & then draws up the Pecanons

December 27th Wednesday

Fractures of the olecranon process of the Ulna — this process is often broken off by falls — when it is fractured the patient cannot extend the fore-arm on the arm — if the arm be bent, a separation of the fragments is evident — if the arm be extended, the surgeon can push the fragment from side to side, which causes a grating sensation — in order to place the fragment in a proper situation, extend the fore-arm on the arm — in order to secure them when fixed, apply a bandage beginning at the wrist, and passing it up to the shoulder — compresses are unnecessary — bind a splint on the anterior of the arm to prevent flexion — in 25 days after the dressings have been applied, it is necessary to remove them, to give the arm a little flexion, in order to guard against a stiff joint — care must be taken in removing the dressings not to give the patient much pain & not to break the fragment afresh, for as yet it is tender — when we apply the bandage in the first instance it is necessary to cover the olecranon entirely —

I have said the dressings must not be removed till 24 days have expired — this is generally the case — but if there be much injury to the soft parts or merely an incised wound you must remove the dressings daily or every two days, otherwise a

The great importance of the Cause should
 deter us from amputating it at the last
 reasons - even though circumstances are unfa-
 vourable, still let us endeavor to save it -

simple fracture may be changed into a compound one - when we remove the dressing in this case we must guard against flexing the arm -

The Bones of the Hand or Metacarpal Bones are not very often broken - the fracture of them is generally occasioned by violence done directly to the part - The management of this fracture is not very difficult - after reducing the fracture as well as possible, a bandage is to be passed round the hand - after this a splint is to be applied on the inside of the hand to cover the whole - this dressing is necessary if only one metacarpal bone is broken - a bandage must be applied round the splint to secure it -

Simple fractures of the fingers do not often occur - they do sometimes - I knew one case - the fracture was in the little finger of a boy and was produced by boxing - a splint was applied on the inside of the finger after the fracture had been reduced -

Compound fractures of the fingers are very common - they often occur under very discouraging circumstances - the bone is broken into many pieces, and with this the surrounding soft parts are greatly lacerated -

When called to such fractures, we often feel tempted to amputate immediately -

In all these cases however discouraging, I would advise you to place the fragments in as proper a manner as possible - clean the wound of any dirt that may be in it - when the fragments are thus adjusted, retain them so with Comp. adh -

a splint of thin Cedar is to be applied on the inside to retain the part in a proper situation - the application of dressing to compound fractures of the fingers should be done with caution - great pressure is entirely inadmissible and always proves injurious as it will mostly occasion Gangrene of the part and thus the finger be entirely lost -

Fracture of the Femur - this often happens - and the management of it is more difficult than that of any other fracture - it is mostly broken at the middle or above towards the head of the bone - this fracture is often transverse, but most commonly oblique - the limb is always shorter by 3 or 4 inches - when the patient is laid on his back, the foot by its weight falls flat on the ~~out~~ with its outside downwards - the thigh is generally bent at the place of fracture and there is mostly a tumefaction of the part - patients cannot raise the extremity - when they attempt to do so, it occasions violent pain and sometimes convulsions -

If extension be made by taking hold of the foot of the fractured limb, the surgeon is often able to make it as long as the sound extremity - by this a grating noise will be evident - the shortening of the limb is owing to the action of surrounding muscles - they draw, by reason of their contraction, the inferior fragment upwards and the rotation of the

inferior fragment produced by the weight of the foot rolling outwards, occasions a displacement of the inferior portion inwards - different means have been devised for the management of this fracture - I shall notice only one - Mr Pott a celebrated Surgeon directs the body and lower extremities to be so placed as to relax the muscles - this he does by bending the thigh on the Trunk of the body and the leg on the thigh - he directs the patient to be placed with the injured side downwards - by this method patients were unable to keep their position notwithstanding they were propped up by pillows and bolsters - they always complained of great weariness & the surgeon who uses this mode is unable to examine the length of the limb & ^{but} with moving his patient, which is a great inconvenience - An the contrary, when your patient is made to lay on his back in a straight position, you can make any examination that is necessary - this position is greatly preferred by patients - the body rests at ease and is equally supported on all sides -

The objections that have been made to the last method are

1st The muscles of the thigh are kept constantly distended and contracted - this mode of reasoning appears plausible, but it is incorrect - for the muscles become in a short time habituated to this situation -

2—When placed on the back, a considerable pressure is made on the heel, by which inflammation is produced on the part surrounding the os. Calcis—this may be prevented by applying a piece of leather spread with Gripe adh. on the heel—on a bolster made of a number of folds of flannel sewed together and an oval hole cut in the middle large enough to admit the heel—

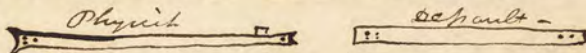
For these reasons, I greatly prefer the extended position—in transverse fractures, if the fragments be properly fixed, they are so locked together that the muscles cannot draw the inferior portion upwards. But this is not the case when the fracture is oblique—the fragments will slip by each other—various means have been used to prevent this, but none are equal to the plan adopted by Desault—he proposes to maintain a permanent extension and counterextension by placing a long splint on the outside of the ~~limb~~ ^{up towards} limb extending from below the foot ~~to the~~ ^{up towards} axilla—a band is passed round the foot and secured to the lower end of the splint, and a similar one at the upper part passed round the tuber Ischii—the counter extension is kept up—as it is impossible in all cases to know whether the fracture is oblique or transverse, the method of Desault is always the best—before any dressing are applied, obtain a suitable bed—the bed should be narrow for if wide the sacking bottom would certainly drag—

The first of these is the fact that the
 population of the country is increasing
 rapidly. This is due to a number of
 causes, the most important of which
 are the following: first, the fact that
 the birth rate is high; second, the fact
 that the death rate is low; and third,
 the fact that the immigration is large.
 The second of these is the fact that the
 population is becoming more and more
 concentrated in the cities. This is due
 to the fact that the cities are becoming
 more and more attractive, and that the
 country is becoming less and less attractive.
 The third of these is the fact that the
 population is becoming more and more
 educated. This is due to the fact that
 the schools are becoming more and more
 numerous, and that the people are becoming
 more and more interested in education.
 The fourth of these is the fact that the
 population is becoming more and more
 wealthy. This is due to the fact that the
 people are becoming more and more
 successful in their business and industrial
 pursuits.

and the fragment be displaced — instead of a
 soft bed, procure a hair mattress — this affords
 an elastic and more uniform support than a
 soft bed — Sir Jas. Earle proposes, a bed for
 patients with fractured limbs — he advises, a
 frame to be made to which the Sacking is
 permanently fixed — in the centre, a circular
 hole is to be cut, about 13 or 14 inches in diameter —
 a hole of the same size is likewise to be cut in
 the mattress — a pad stuffed like the mattress
 is to be fitted to this hole — the pad may be
 removed whenever the patient wishes to perform
 an evacuation of the contents of his bowels — his
 buttocks are to be placed in the hole of the mattress —
 the mattress should have a sheet or it well tucked
 in, to prevent wrinkling — having prepared the
 bed, first lay down the tapes 4 or 5 in number
 about $1\frac{1}{2}$ yds long, across the bed — over these lay
 the splint cloth, a piece of linen about 1 yd —
 square with one corner folded in towards
 the wounded leg — at the margin of this fold
 lay the splint for the posterior part of the limb —
 then lay across, a bandage of strips, sufficient
 to cover the whole length of the splint which is
 about 18 inches — it is necessary also to have
 two bandages for extension and counter extension —
 two silk handkerchiefs are the best things we
 can use — next, a splint is to be ready for the
 anterior part of the thigh — next two bags
 filled with chaff long enough to reach from

Besides this there is a bandage to be passed round the
 pelvis and over the splint to secure the splint to
 the body.

the as Thim to the foot - next two long splints for the outside and inside of the thigh, the former to extend from the axilla to ~~the~~ below the foot, the latter to reach from the foot to the groin - one of the handkerchiefs is to be passed round the ankle and over the foot and tied at the sole of the foot - this is to effect extension - the handkerchief for counter extension is to go under thigh within the Tuber Ischii and the ends to be tied and held by an assistant who is placed at the patient's head; besides these an assistant is to hold the knee - the surgeon having hold of the lower handkerchief is to extend and turn the foot inward while the assistant at the other end is to pull, till the surgeon finds both the limbs to be of equal length - when the fracture is thus properly reduced, the bandage of strips is to be applied round the thigh - assistant continuing to make extension & counter extension - the external splint which I use differs from DePault's is very longer and having a block of board projecting near the lower end -



the three upper holes are for the counter-extending handkerchief - The splints are to be rolled up in the cloth - between the splint & thigh, place the bags of chaff - then apply the anterior splint 18 inches long and secure the

whole by the tapes above mentioned —
 the limb extended is to be kept so by the hand-
 kerchiefs being fastened to the outside splint —

December 29th 1869

D^r Physics applied to one thigh of a servant before
 the clasp, Despault, splint, and on the other thigh
 that injured by the doctor. The objections to the
 splint of Despault are 1st The counter-extending
 bandage presses too much on the surrounding
 muscles — 2^d This bandage tends to displace the su-
 perior fragment — In order to obviate these I made
 another splint, longer considerably than that of
 Despault — my splint reaches to the axilla and
 has a hollow in the end to fit the arm pit — near
 to this are the holes for passing thro' the counter-ex-
 tending bandage, which thus obviates the first ob-
 jection, by the pressure across the great muscles
 being nearly removed or at least not by any
 means as great as that of Despault occasions — nor
 by this method is the superior fragment displaced as
 is the case with Despault's splint — the pressure of the
 counter-extending bandage in my splint is directly
 in the direction of the femur, whereas in Despault's
 the pressure is transverse — the hollow in the
 upper end by placing in it a pad, answers
 for a crutch — another difference is that

All fractures of the thigh bone require at least
 6 weeks - that of the head within the acetabulum
 requires 3 mos - in the latter case the union
 is ligamentous, not bony -

near the lower end of my splint, a block is fixed on the inside - this was added of Dr. Whitham's death and spirit, in the counter extension - If you wish to make the counter extension directly in the line of the body, join the counter extending bandage by thread or pins to the bandage crossing the pelvis -

There is one circumstance which requires considerable caution - it is a habit with young practitioners to pull the bandages as hard as they could ~~can~~ - this presses on the soft parts of the foot and on the perineum - thus inflammation is brought on and frequently mortification - I have often seen sloughs fall out - you should never make more pressure than the patient can conveniently bear at first -

I have said that handkerchiefs are the best means for extension and counter extension - this is true - a leather apparatus is also used - I will speak of it hereafter - when muslin is used, it is ~~best~~ best to wet the parts with brandy every day -

The head of the as femoris is often broken - here the thigh is sometimes shortened - if the portion fractured is in the acetabulum, it will be kept in its place by the capsular ligament and thus the limb will not be shortened - but in most fractures of the thigh, it is shortened and the limb turned over on the outside - by taking hold of the foot and turning it in, you will perceive a depression -

+ pass a bandage from the foot up to half way
between the knee & thigh, having first placed a compress
on the posterior part of the lower fragment - a splint to
the back part from foot to ischium -

it bears a resemblance to a luxation of the thigh bone upwards and backwards — the fracture differs from the luxation because in the latter the foot is turned inwards and in the former outwards — when luxated, it is also shortened, but cannot be reduced without great violence — in luxation, there is no crepitus — thus you can determine the nature of the injury — but I have mentioned a case in which the fragment is not displaced — you can certainly distinguish that the thigh is not luxated — if you find the patient cannot walk about, it will be best to apply the apparatus for fracture of the os femoris already mentioned, except the anterior and posterior splints —

In these fractures, a great length of time is necessary — in that of the head of the bone 3 months is requisite — it has been doubted whether bony union ever takes place — but it certainly does —

The thigh is sometimes fractured at the lower extremity, near the condyles — here it is mostly oblique and broken upwards and backwards —

The extremities of the bone are displaced not only by the muscles of the thigh, but also by those of the leg, and the ligaments — the Gastrocnemius displaces the fragment lower — it is best to place a thick + pillow under the leg to support it — the other means above mentioned are to be used —

January 1. 1844

The character of the night is quite dark

and seems to suggest some what of the

weather of the last night - it is dark

and the light is not so bright as it

was on the night of the 29th - we

are now in a more open place



and the view is more extensive

and the light is more brilliant

than on the night of the 29th - the

view is more extensive and the

light is more brilliant than on

the night of the 29th - the view

is more extensive and the light


is more brilliant than on the

night of the 29th - the view is

more extensive and the light is

more brilliant than on the night

January 1st 1809 Monday

In Fractures of the Thigh a practice has been resorted to different from what I have mentioned - the patient is placed on his back and the leg is then bent on the thigh about half way to the thigh - an apparatus made into angular form is then made to place under the leg and thigh to maintain them in their bent position -  This may do in transverse fractures but not in those that are oblique - the pelvis by this method is liable to be cracked -

Fracture of the bones of the Leg - these bones are often broken together, sometimes at the lower and sometimes at the upper extremity - when both bones are broken and the fracture is transverse, there is but little displacement - but if oblique the limb will be shortened - in transverse fractures the bones do not pass each other yet the fragments may be bent at right angles so as to cause a lump to appear anteriorly - the ends of the bone are drawn back by the action of the muscles - when both bones are broken, they are easily bent, patient has great pain and the place of fracture of the tibia can be felt by examination - by moving the parts, a



* First procure a board to lay on the bed,
on which place the pillow -

crepitus is sensible —

In transverse fractures of the bone where there is no displacement, the treatment is simple — when the parts are bent place them in their natural position, then apply bandages and splints to retain them so — to make extension one ~~person~~ person must pass a bandage round the ankle and to the sole of the foot as in Fractured Fem-
-oris and ^{extension} extension is to be made by another person by taking hold of the knee — the surgeon by putting his finger on the prominent part & the extension and counter extension being made the fracture is reduced — it is often necessary to place the two feet together to see if they are of equal length for there may be an injury done to the thigh bone which the patient did not perceive and which may produce a shortening of the limb — the dressing is as follows — 1st Procure a pillow, on that lay a bandage of strips, a sufficient number to reach from the ankle to the knee — then longitudinally place two splints 3 or 4 inches apart folded up three or 4 times in muslin — the splints to be of paste board and previously soaked — on this lay another bandage of strips — the extension & counter-extension being kept up, the first bandage of strips is to be applied — then the

AAA

splints are laid against the leg and retained there by the other bandage of strips - the sides of the pillow are to be placed against the leg and supported there by two pieces of board placed one on each side of the leg and fastened there by tapes - in each end of each board a hole is to be made for this purpose - the foot is to be supported by a bandage passed round it near the toes and the end of the bandage are to be pinned to the pillow - some contrivance is always necessary in these fractures to prevent the bed clothes from pressing on the limb - Basket boxes are constructed for this purpose - what answers well is a hoop cut in two pieces and the one being placed across the other they are tied in the middle

In all transverse fractures of these bones this dressing is only necessary - the heel must be attended to and covered with Oxyg. adh. thus inflammation is prevented - when the fracture is oblique the muscles draw the lower fragment downwards upwards, shortening the limb - here we must have some mode of counter extension and that used in fracture of Os. femoris might do - but Dr. Hutchinson has made an improvement which is better - two splints two feet 6 inches long with a number of

A answer well a Camp and pasture -

holes at the upper end and a mortise at
 the lower end through which a cross piece
 is passed to admit of an increase or in-
 -crease in the opening - the upper end to be
 open - a bandage is then to be passed round
 the foot for making extension - the bandage
 of strips on the pillow is applied as before &
 a bandage passed round ^{below} the knee by which
 4 tapes are to be secured ^{two} on each side of the
 knee - these are passed thro the holes at the
 upper end for counter extension and fast-
 -en the lower bandage to the cross piece for
 making extension - then fill up the inter-
 -stices with bags of chaff placed between
 the splint and leg - this mode answers extremely
 well - but when the parts have a disposition
~~to~~ to swell the upper bandages which secure the
 tapes increase the swelling - in this case the long
 splint for fracture of the Os. femoris is best -
 the bandage I have described answers well for
 fracture of the leg - you can examine the
 parts without removing the splint or disturbing
 the fragments - when the patient is very restless
 it is found necessary to lay the patient's leg in a
 fracture box without the splint but with every
 other part of the dressing - this answers in transverse
 fractures -

the last is one piece of wood to which on each side
 is hinged a piece of the same size — the side
 pieces are supported by means of tapes —
 sometimes the Tibia alone is fractured — in this
 case there is little displacement — in some other
 fracture it is difficult to ascertain whether there
 be a fracture or not — to we may ascertain the
 nature of the injury! 1st By the patient having con-
 siderable pain at the place of fracture 2nd
 there is no distortion yet a crepitus may be
 produced on motion of the parts — the patient
 is frequently able to walk about because the
 ends of the bone are firmly drawn together —
 caution is requisite in examining this injury —
 The Fibula is sometimes broken; it is mostly
 fractured just above the external ankle — it is
 most frequently fractured by a violent abduction
 of the foot — besides fracturing the fibula, the astragalus
 is sometimes luxated — when this accident happens,
 the patient is sensible of a cracking noise — he can
 walk but is sensible of something being wrong —
 by flexing the knee the surgeon can move the
 fragments — when the astragalus is luxated the
 sole of the foot is turned outwards — to reduce
 this it is necessary for one to grasp the knee &
 another the foot and by some exertion the reduction
 is effected and the astragalus returns to its proper place —

after this a bandage of strips of paper run to limb - you must not use much pressure in the application of it close the interosseous space be filled up and the power of rotation be lost - next apply one splint on the outside, another on the inside of the leg long enough to reach from the knee to a short distance below the foot - the reason for the splint extending below the ^{foot} knee is that the ^{latter} ~~foot~~ may be prevented from moving - by this dressing the patient gets well of 5 weeks - the patient should not walk about while this occasion pain - By this inattention I knew a case of fractured tibia protracted in the cure from 9 weeks to 9 months -

Jan'y 3rd - 1810 Wednesday

Fracture of the Patella - The patella is mostly broken transversely - sometimes longitudinally and sometimes obliquely - transverse fractures of the patella are occasioned by the violent action of the extensor muscles of the leg - oblique ^{& longitudinal} fractures arise from violence done directly to the part - when the fracture is transverse the patient cannot bend his leg - if it happen when the leg is bent the patient falls down - he is also sensible of a sudden snap in the part -

The Tarda Achille is sometimes fractured

Snap is heard - sensation like a blow, not much pain -
 inability to raise the heel, except by the person, or pass
 a little - separation between the fragments is perceptible -
 Dr. Monro treats this with a piece of Rupsin sheeting
 laced around the upper part of the leg to prevent
 the action of the Gastrocnemius muscles - a buckle was
 fixed to the lower end of this laced affair - a slipper
 was worn with a buckle & strap behind - the foot
 was extended and the strap fastened above - This
 succeeded - but there was a knob left over the
 wound - the foot is liable to slip about with this
 sheeting - Dr. Othwich has a carved instrument (see
 page 75) which confines the leg & foot completely
 extended - flannel is placed between the splint &
 the limb - before the application of the splint a bandage
 is passed round the calf ^{beginning} half way from the foot
 & carrying it up to knee to confine the muscles -
 the splint then is applied - then a bandage passed as
 before above - then another round the foot & splint
 not brought above the heel, except a few turns of the
 bandage slightly; for if the tendon were pressed at the
 place of fracture it would be forced to the tibia -
 6 or 8 weeks necessary to cure - flex the leg on the
 thigh to relax gastrocnemius muscles - treat fracture of
 gastrocnemius muscle in same way only at first appl.
 bandage from foot up to knee - this heals in 2
 or 3 weeks - see page 74

an examination you can discover the edges of the pa-
 tella separate - the superior fragment is drawn
 up, by the extensor muscles of the thigh - and the
 inferior fragment is drawn down by the action of
 the flexor muscles of the leg - by taking hold of
 the part the surgeon can perceive a crepitus -
 It sometimes happens that beside the fracture of the
 patella there is a rupture of some of the blood ves-
 sels - this produces a swelling of the parts imme-
 diately about - though the patient cannot walk
 forward, he can nevertheless walk sideways &
 backwards - if he attempts to go forward he cer-
 tainly falls down - the causes which act in
 displacing the fragments are 1st The muscles
 united with the Patella - 2^d The leg if bent on
 the thigh displaces the lower fragment downwards -
 thus the fragments are separated

In the treatment of this accident, it is necessary
 to extend the leg on the thigh and flex the thigh
 on the pelvis - a compress must be placed over
 the upper fragment to counteract the action of
 the muscles of the thigh on this part - also a com-
 press on the lower fragment for a similar reason -
 let the trunk lay flat on the bed and raise the
 inferior extremity in an extended position &
 retain it there - thus the tendency to inflammation
 is lessened, because the arterial blood will flow
 there with less force & the venous will more readily
 (return)

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a bandage is to be passed from the foot up to the lower fragment of the patella, the assistant holding the bandage, the surgeon places the fragment correctly and on the upper one he lays a compress - then instead covering the lower fragment he passes the bandage under ^{the leg} and over the compress, continuing the bandage up to thigh for some length in order to counteract the action of the muscles in this part - ~~then~~ ^{then} a ~~compr~~ the bandage is returned down to thigh and covering completely the lower fragment*, it is passed down to the foot - in order to secure the limb in its extended position a pasteboard splint is to be applied posteriorly long enough to reach from the calcari to the Tuber Ischii - the splint is bent into a hollow form to fit the leg and thigh - this is to be secured by a roller or bandage - the limb should be kept thus 4 or 5 weeks - but if the patient complains of pain in the part, remove the dressings to see if there be inflammation - if this be neglected, suppuration might come on and an abscess be formed in the knee joint - if on removing the dressing there be inflammation - bleed, purge and use lead water to bathe the leg - when the inflammation is gone, apply the dressings as before - Several methods have been used in fractures of the Patella - Dr Dorsey (adjunct P.) has used on several occasions the following splint -

When the ligament passing over the patella is not broken directly the fragments may not be separated ~~the first~~ immediately —

3 months are requisite to cure —

When the ligament is large, the limb may be rendered useful by frequently endeavouring to extend the leg on the thigh —

← the fragments should be held by one hand while flexion is made with the other —

A piece of thin wood 3 feet long for adults and 3 or 4 inches wide, with two bandages a yard long, nailed across the splint 6 inches apart - to apply it lay a bolster on the opposite side of the splint to that which has the bandages - lay it under limb with the bandages under the knee - to retain the fragments, the lower bandage of one side is tied across to the upper bandage of the other side - this has done well in 3 instances - It seldom happens that the fragments of the patella can be kept in close contact - thus the union of the fragments is ^{not} bony - a ligament only is formed - if great care be taken the ligament will be short - but if inflammation supervene and the fragments be often disturbed the ligament will be long - thus the fragments will be separated from each other - yet the patient is able to walk - it is a fortunate circumstance that bony union is not effected, otherwise there would probably be an ankylosis - the extensor muscles of the thigh, owing to the elevation of the upper fragment of the patella, lose their power of contraction considerably - at the end of a month after the dressings have been applied it is necessary to remove them to flex the leg a little; but in this + great care should be taken - the great danger to the surgeon in the first instance is his desire to retain the parts in contact - the great desire of this end has often occasioned violent inflammation

I have been thinking of you very much lately
and wondering how you are getting on
I hope you are well and happy
I have been very busy lately
but I have managed to find some time
to write you a few lines
I have been thinking of you very much lately
and wondering how you are getting on
I hope you are well and happy
I have been very busy lately
but I have managed to find some time
to write you a few lines

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I next speak of Luxations

A luxation of a bone may be termed its displacement from its natural situation, by violent exertion &c - luxations are attended with pain

The rupture of the capsular ligament in a luxation is not painful except in some cases - when the pain is violent give opium &c - if the contraction of the muscles oppose the reduction of the limb, bleed plentifully - this is the best mode and was first employed by myself - if patient refuse bloodletting, perhaps, nausea or vomiting might answer - after awhile if the luxation is not reduced, the muscles seem to accommodate themselves to their new situation - if the limb remain long without reduction, the bone seems to contract and the capsular ligament to grow ^{over} less, - when this is the case the reduction is very difficult and requires great force to be exerted - the rope and pulley has been used, it must be fixed only to the joint luxated - I have employed a number of men to reduce luxations and I think this the best mode, because you can vary the direction of the force better than with the pulley -

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January 5th 1810

Luxation of the Jaw Bone

The jaw bone can only be luxated by the condyles passing out of the cavity which they naturally occupy - the paper-foam and the mouth is opened wide and continues so till reduced - it arises mostly from great yawning - I never knew it luxated by external violence - when the luxation recent, no difficulty attend its reduction - but if it continues a long time it is troublesome -

To reduce a luxation, the thumbs should be covered with a towel and placed over the last molars - the fingers are placed under the chin - the thumbs are to press down and the fingers to raise the chin - then the jaw is to be pushed back - thus the bone returns to its right place - luxation mostly occurs on ~~one~~ ^{both} sides, but sometimes on one - the treatment is the same -

Luxations of the Clavicle are not often met with - the sternal extremity may be luxated forward, backward and upwards - in all these cases the mode of reduction is easy - the instruments are so thin that the surgeon can easily find it - then the apparatus for Fractured Clavicle

When inserted forward the head of the bone
 is lodged between the Coracoid process of the
 scapula and anterior part of the glenoid cavity—
 When inserted backward the head is placed against
 the spine of the scapula—

The scapular portion is sometimes luxated — the extremity rises above the acromion Scapulae — the parts are so thickly covered that the nature of the injury is easily ascertained — it is reduced by raising the arm — after this use the apparatus for the fracture of the Clavicle — Support to the arm must be continued for 10 or 12 weeks else it will be again luxated —

Luxations of the Humerus and Shoulder Joint often occur — the Humerus may be luxated downwards and inwards

I have seen it luxated forwards but never backwards — it is most often luxated downwards & inwards — patients cannot apply their elbows to their side — by examination, a great depression is found under the acromion and if the finger be passed in the axilla, the head of the Humerus is evident —

When the luxation is recent it may be reduced with great facility — I have succeeded without the assistance of any other persons — it is to be reduced by extension and counter extension — sometimes great force is required — the hands of some assistants are placed on the acromion & scapula to make counter extension and the Surgeon takes hold of the arm at the elbow to

The first of these is the fact that the
 human mind is not a blank slate at birth.
 It is a complex of ideas and feelings
 which are the result of the environment
 in which it is placed. The second is the
 fact that the human mind is not a
 passive recipient of impressions. It is
 an active agent which selects and
 interprets the impressions which it
 receives. The third is the fact that
 the human mind is not a single entity.
 It is a complex of many different
 faculties which are all working together
 to form a unified whole. The fourth is
 the fact that the human mind is not
 a static entity. It is a dynamic
 system which is constantly changing
 and growing. The fifth is the fact
 that the human mind is not a
 purely individual entity. It is a
 social entity which is shaped by the
 society in which it lives. The sixth is
 the fact that the human mind is not
 a purely rational entity. It is a
 creature of emotions and feelings as
 well as of reason. The seventh is the
 fact that the human mind is not a
 purely material entity. It is a
 spiritual entity which is capable of
 transcending the material world. The
 eighth is the fact that the human mind
 is not a purely mortal entity. It is
 an immortal entity which is capable
 of surviving the death of the body.

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make extension - the counter extension must be made with the same force as the extension - for there are instances on record where the whole Superiorem extremity was torn off ~~in this~~ by two great force in extension - it is necessary in making counter extension to apply the force to the Scapulas and the extending force just above the elbow -

considerable force may be used and reduction not be accomplished - here venesection should be used ad deliquium - thus the contraction of the muscles is counteracted - when the limb has been luxated for several weeks, the muscles appear to accommodate themselves to their new situation - the capsular ligament seems to have contracted and great force is necessary in the reduction - great bleeding is of considerable importance - when considerable force is necessary a bandage is to be fixed just above the elbow - but in the first instance to prevent excoriation, I apply a piece of buckskin, then I lay on a strong towel above the elbow and secure it there with a bandage - this is for the extension - for counter extension a long band with a part of it stuffed is to be

the bandage is with a view to prevent
the displacement of the hand —

Or on a chain without a back —

In cases where you great force might
be necessary, prefer ~~the~~ venous duct
as being amenable to violent sections, for
the latter lacerates the soft parts and thus
proves bleeding to be a more humane
remedy —

applied on the acromion - the counter-ex-
 tension is more difficult than the extension -
 because the hand slips from the acromion
 readily - but it may be retained there by
 X a small bandage passed round the limb
 and over the acromion - the patient is to be
 seated for the reduction - the surgeon takes
 hold of the hand and elbow and rotates the
 limb to break away the adhesion of the cap-
 sular ligament - 4 persons should make
 counter extension and as many for the extension -
 when the head of the humerus is brought away
 from the arm pit, the elbow is to be pushed di-
 rectly to the side - previous to this it may be
 necessary to put the hand in the axilla to
 push the head of the bone out, or to place in the
 arm pit a compress which acts as a ^{pulcrum} ~~lever~~ -
 the arm being the lever -
 Pulleys and ropes are sometimes used - the
 great disadvantage of these is, you cannot di-
 rect the force; this is obviated by employing men -
 In this way I never ^{saw} a case fail -
 In the Pennsylvania Hospital this winter,
 there was a case where the bone had been out
 13 weeks - it was reduced -

+ he cannot bend it further —

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January 8th 1810

I told you in the last lecture that the Humerus had been reduced after being luxated 13 weeks; there are cases on record of luxation, being reduced after being displaced 4 or 5 months - Dr McKenzie informed me of a case of luxation of the Humerus which had existed for 5 months - bleeding ad deliquium was used and reduction was effected - what is extraordinary no swelling followed - attempt ought to be made at reduction & the bone be displaced ever so long -

Luxation of the Bones of the Fore arm and Elbow Joint

There may be luxated backwards and upwards or laterally - luxation forwards is almost impossible - in this luxation the patient cannot straighten his arm, but it remains half bent - the joint of the bones is disfigured - you can feel the hook like process of the olecranon above the condyles of the Humerus - thus the existence of the accident is evident - to reduce this luxation, an assistant should seize the arm above the elbow to make counterextension - another to make extension should seize the bones of the fore arm - the surgeon then takes hold at the elbow joint - the fore arm is pulled backwards to dislodge the olecranon process -

Luxation of the Second bone
 of the thumb. In the first is trouble
 - Some - extensor & counter extensor do not
 answer well - Cha Bell recommends to
 introduce a conching needle thru the
 soft parts and divide the ligament
 on the outer side of the thumb near
 the joint.

This being done the apartment is to bend the arm to the side - clothes wet with Spirits are to be placed on the parts and the hand put in a sling - when the luxation is lateral the reduction is the same - Boyer on luxations, says it is impossible to reduce a luxation of the fore arm after being luxated 13 days - This is not the case - I have reduced them after being luxated a month

Bones of the Hand.

There may be luxated forwards and backwards - when the wrist is luxated forwards, there is a prominence on the inside of the wrist and the hand cannot be bent - when the luxation is backwards the hand is bent downwards and cannot be moved upwards - These are easily reduced by more extension and counter extension - after reduction, apply ~~the~~ a splint on the inside of the hand and fore arm, otherwise some inconvenience would follow as swelling &c -

Bones of the Finger are sometimes luxated - the accident is always apparent, and admits of easy reduction - simple extension & counter extension is all that is necessary - some of the luxations of the thumb are not so easily reduced, but with care they may be managed -

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The Thigh Bone and Hip joint

Luxations in here may be upwards and backwards or downwards and forwards - indeed they may be luxated in every direction - The luxation upwards and backwards is most common - of 9 cases which I have noted 7 were upwards & backwards - when the thigh is luxated upwards and backwards the limb is always shortened - there is a loss of motion - the leg is bent at the knee joint - the toes point in and cannot be turned out easily - it is impossible to make the limb as long as the other without using force enough to reduce it - when the luxation is recent it is very easy of reduction - I reduced one luxated thigh bone after being displaced 13 weeks, - I shall ^{show} you the method of reduction in luxation upwards & backwards - in order that the muscles should be relaxed, the patient should be placed on his side, the leg bent in the thigh and this on the pelvis - a long band is to be passed between the thighs and passed upwards over the head and fixed to the head of the bedstead for the counter extension - a strong towel is to be fastened above the knee by means of a roller - This towel is for the extension -

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a pulley may be fastened to the towel to increase the force - here pulley answers, well, because it is not necessary to vary the direction of the force - a number of men will answer when the pulley cannot be had - by rotating the thigh and continuing the extension and counter extension the ^{head} of the bone is dislodged and it slips suddenly - when it returns to its place there is a sudden noise - the limb gains its natural size - if this will not succeed, the surgeon may pass a band under the upper part of the thigh, and round his own neck - by raising his head the extension and counter extension being made, the reduction is often effected - in the same way, luxation upwards and forwards, is to be managed -

Luxation of the Femur upwards and
Forwards - This seldom occurs - some years ago we had a case of this kind in our Hospital - the Case is related in D. Cass's Medical Museum - the head of the bone was lodged in the hollow behind the Pubis and before the Acetabulum - a tumour was felt in the groin - the knee was bent outwards - the luxation was reduced by a strap passed between the thighs over the scrotum into a soft substance intervening and carried

+ in fat people it may be
below the knee —

Suppose the right thigh to be luxated
counter ext & extension made as before — a
long band stuffed in the middle is applied
round the pelvis with the stuffed part on the
right side, the ends carried over to the left and
fixed to a firm place — this secures the pelvis and
the transverse counter extension — the exten-
sion transversely is then made by passing a band
round the right thigh & carrying it over to
the right side & ~~fixing it~~ giving it the
assistants are applying a pulley to it — this
is used to dislodge the ~~bone~~ head of the
bone —

forward and fastened behind the head to a
 permanent place - a strong towel was fixed
 by bandage to the ^{thigh just above} ~~leg~~ below the knee for making
 extension and a pulley fastened to the towel
 to increase the force - great bleeding was used
 before reduction was effected - I will show
 the mode of treatment - the injured limb is
 laid on the side of the bed - the strap is to be
 passed between the thighs for counter extension -
 then for extension a towel is fastened ~~below~~
^{above} the knee with a bandage - a round band
 is passed round the pelvis at the injured side
 and the ends being carried ^{transversely} over are fixed to a
 permanent place - then a band is passed
 round the upper part of the thigh across it,
 and a pulley fixed to it in order to pull
 the head of the bone from its situation - while
 this is going on the surgeon is to rotate the
 limb - to prevent the abduction of the thigh
 the knee is pushed in and force is exerted on
 the band across the upper part of the thigh -
 Desault says the counter extending band should
 be fixed to the sound side - I have never seen
 but one luxation of this kind - the next species
 of luxation is downwards and forwards - in this
 the toes are turned out and the limb is made
 longer -

The first of these is the fact that the
 - the second is the fact that the
 - the third is the fact that the
 - the fourth is the fact that the
 - the fifth is the fact that the
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 - the hundredth is the fact that the

Patients can make no motions into the limb -
 sometimes you can feel a tumor inside of the thigh -
 the head of the bone is in the foramen thyroideum -
 Cases read from Key's Surgery - he relates a case of
 luxation forwards and downwards where the limb
 was lengthened 4 inches - this must have been
 owing to the bones of the pelvis on the injured side
 being pulled down - the luxation he reduced
 in the following manner - he laid the patient
 on a table with two holes bored in it wide
 enough apart to admit the pelvis between them -
 over the pelvis blankets are laid and a strong
 band is passed over and ^{round} the hole, and fixed
 to the floor - the counter extending bandage is
 passed between the thighs as before directed - a
 band is to be passed round the thigh and over
 the surgeon's neck to raise the head of the bone -
 the extending bandage and towel is applied as
 before directed - by this means reduction is ef-
 fected - another method is used - one end of
 a splint made in the form of a rake 10 feet
 long and 10 inches broad, ^{at one end} was fixed with the
 small end against the wall and the broad end
 between the thighs - this makes the counter exten-
 sion - some substance must be placed on the
 scrotum to protect it - then for extension, a towel
 is passed over the thigh just above the knee &

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secured there with a bandage - and to raise the head of the bone from the foramen thyroideum a rolling pin was passed between the thighs & so managed as to raise the head of the bone - thus the limb was brought to its proper place - immediately after reduction the limb will be found $1\frac{1}{2}$ inches longer than the other one, but this gradually wears away

Luxation backwards and downwards might be reduced in the same way - in this case the toes are turned inwards - I never saw one of this kind - one direction I wish to give you respecting some circumstances which often lead into error -

Persons suffer contusions of the hip and the leg & the thigh lays down flat and rotation cannot be performed - the limb is longer than the sound one - this has occasioned embarrassment - I have seen consultation called on such occasions - when the limb is lengthened it is only by the drawing down of the pelvis on the injured side - a person without any accident can lengthen one thigh so as to give this appearance - always guard against this mistake - lay a stick across the body from Thiv to Thiv and you can easily be satisfied —

+ it is outwards always —

+ 3 months ^{rest} is requisite to cure
this perfectly —

or by rest this gets well in 15 days

+ also backward - in one case the foot is
shorter, in another it is longer —

or this accident is seldom cured in less
than 9 months —

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Luxation of Bones of Leg and Knee joint -

This luxation is not frequent - I have seen but two cases - the head of the tibia was turned out - a great deformity is induced; you can plainly feel the internal ~~head~~^{condyle} of the os femoris - it is easily reduced by mere extension and counterextension - it is difficult to retain the bones in their place - the splint for fractures of the Femur should be applied

In reduction while the counter extension and extension is going on a bandage is to be applied wet with lead water or something of that kind then Desault's splint - if there be great pain, use bleeding - if there be great laceration apply a soft poultice -

Luxations of the Patella may take place towards the inside or outside of the limb - the former is very rare - when the patella is forced over the external condyle of the os femoris, the patient cannot bend the leg - the patella will appear laterally - to reduce this the leg is to ^{be extended} ~~be extended~~ on the thigh and the thigh on the Pelvis to relax the muscles - then the reduction is easy -

The Foot is sometimes luxated by violent abduction - it is reduced by counter extension & extension - I have never seen the astragalus thrown inward - There is another luxation in which the tibia and fibula are thrown forward - this is reduced by extension and counter extension - it is considerable time before

There is an affection of the knee joint which Mr. Hey calls a derangement of the internal parts of the knee - it is produced by displacement of one of the semilunar cartilages or by one of the crucial ligaments - to remedy it, the patient is placed on a table with his feet projecting - the surgeon grasps the foot & also the upper part of the calf of the leg - he extends and at the same time, forces forward the upper part of the tibia, pushing likewise the foot backward -

In cases of sprains Latta recommends strongly the application of leeches to the part - he says the swelling and pain are thus easily removed -

the patients can use the limb - Sometimes patients cannot walk for many months - after the recurrence of this accident the patient should not walk for some time - a fracture box should be used and a bandage kept round the foot

There is a compound luxation of the ankle joint in which the bones of the leg are pushed outward & the skin and with this the astragalus is often thrown out - some amputate directly on account of the great laceration - but I think if the bones are placed properly and the wound dressed correctly, the wound will be removed and the patient get well -

There is an accident called Sprain to which we are often called - one side of the ankle is lacerated and there is some swelling in consequence partly of ruptured vessels - this is very painful - it differs from luxation in the joint ⁱⁿ admitting of motion - a stream of cold water over the part for 2 hours is best - in 2 or 3 days the part should ^{be} wrapped in a cloth and kept at rest - this if applied in time succeeds - but the accident is thought by many a simple one and thus often proves very injurious - persons should continue as much as possible at rest - a case related of a young lady with a sprain who neglected it and the ~~case~~ ^{result} was an dissepiment joint -

* In old people it comes in like Rheumatic pains -
children show it in awkwardness of gait -

* The buttocks become flattened and the
great trochanter is easily felt -

hectic fever came on and finally death —

Sprains in the Wrist are to be treated much in the same way — keep the part at rest — a splint is to be applied to the part and kept there until the part becomes well — sometimes after cure the part swells, here a tight bandage or friction are very beneficial —

Disease of the Hip-Joint — the English gave it this name — it is most common in young people, but may attack old people — the first symptom is weakness and afterwards limping — if the limb be examined we find it diminished in size — there is seldom much pain in the commencement — but soon pain is very severe — pressure in the vicinity of the great trochanter occasions great pain — children will be seized with violent fits of pain and scream out — sometimes the pain is felt just above the knee, this wearing a very delusive aspect — whenever a patient complains of the knee without any appearance of disease, suspect the hip — you will find the diseased limb longer than the sound one — this is owing to the patient bearing solely on the sound limb — if you examine, you will find a lateral flexion of the spine — this often deceives surgeons — and has been supposed to be disease of spine —

* This is owing to a tumor filling up the acetabulum —

o ~~For~~ Abscesses succeed chronic inflammation in some cases and the matter exists in the cellular membrane and the tumor occasioned hereby is not painful — but the tumor in acute inflammation is very sensible —

You can be certain of the nature of the disease in this respect by laying the patient across a table the spine will become straight - not so in diseased vertebrae - if the disease be not relieved the limb after a while becomes shorter owing to the displacement of the head of the bone & there will actually be a dislocation upwards -

Sometimes inflammation comes on in the part, abscesses form - hectic fever comes on, night sweats and finally death - sometimes the inflammation subsides, the disease is cured, but the limb remains forever after deformed, from anchylosis - The nature of this accident at first is difficultly ascertained - the acetabulum is sometimes filled up with cartilage and thus the thigh is dislodged and the muscles draw it up - the disease appears generally to take place in the acetabulum more than on the head of the Femur - the most frequent occasional cause of the disease is a fall on the great trochanter - the head of the thigh bone is forced violently against the acetabulum and the parts are inflamed - the misfortune is that patients are seldom placed under the hands of physicians until great mischief is done - the remedies I have used were close confinement & rest - the vegetable diet - I give purges so as to operate 3 or 4 times every day -

* I have seen children grow hearty under the use of purges —

2 - I do not know that this mode of practice is very beneficial —

The purging plan combined with rest, is, in the early stage of the disease, the most successful mode of treatment —

X I use Galap and Crem-tart- Patients who are young like this best - I put the patient in warm bath with salt in it every day - when the inflammatory symptoms were great, I bled and applied leeches - but if there was little inflammation I introduced a seton near the great Foramen - to maintain rest I have a splint made to fit all the diseased side of the body - a carver can make it easily - the splint is secured by bandages -

January 15th 1810

Injuries done to the Head by external violence When the scalp receives a smart blow - the part generally swells owing to a rupture of the blood vessels - a tumour is formed circumscribed by a margin which resists pressure - the part ought not to be opened unless the patient after awhile complains of symptoms of compression on the Brain - In this case an incision should be made directly - The best application to this tumour is cloths wrung out of cold water - do Pott recommends Roshal Ammoniac - I never used it - the cold water answers well - in 7 or 8 days the effused blood will be mostly absorbed - but sometimes this is not the case - a fluctuation will continue long - under these circumstances it will be

o If stitches be used let them be $\frac{1}{2}$ inch apart —

+ It is of importance that the Emp. Adh be not applied too tightly for by rendering the scalp tense maturation may be produced —

When the dura mater is punctured & brain protrudes, the disease is called
Tumour Cerebri —

best to make a puncture with a lancet —
then the cut ends are discharged and patient get
well — the patient in these accident should be
kept on low diet

The scalp is subjected to all the different kinds
of wounds already mentioned — Incised wounds
are to be cleaned of dirt, the hair shaved &
+ 6 mps. etc. — applied — Contused wounds are best
treated by moist fomentices moderately warm —
these to be kept on till suppuration comes on —
when granulation arise Stuffs of plaster may be used
to bring the edges together — sometimes the scalp is
torn from the cranium in a violent manner —
in such cases, the scalp is often contused & lacerated —
the older surgeons would take away the torn scalp
at once, because they said abscesses would other-
wise form — whenever the scalp was in this way, they
cut it off — Mr Pott advises to replace the part
after being cleaned — and if abscesses should form
they are easily ~~cleaned~~ — removed — thus the
cranium will retain its natural covering —
This practice should be followed to the last, the
entirely denuded —
After a wound has been inflicted on the scalp,
we often find it much inflamed and this

When a part of the Cranium
 has been denuded & thereby dies -
 if both tables are dead, the bone becomes
 loose & should be taken away directly
 for granulations arise which make it
 firmer every day —

inflammation often extends over the face —
 This inflammation is mostly found in punctured
 wounds — the inflammation may be removed
 by the application of a Blister — Use bleeding,
 purging and pure low diet — Sometimes fever
 is great and delirium ensues — then calls for copious
 evacuations — the Aponeurosis of the Cranium is often
 seized with this inflammation —

There is often from injuries of the scalp, a pain
 remaining a long time of a very distressing
 nature — I saw a case of this kind — it was cured
 by making a crucial incision on the part ^{in which} the
 patient felt the pain — I saw another case
 in which the wound was over the Os. frontis —
 patient was bled for the wound, leeches, dieted
 &c — the pain ^{continued} ~~continued~~ and I relieved her anxiety
 by a crucial incision but did not relieve the pain —
 It continued as bad as before — patient took Opium,
 Blisters were applied without any benefit — Bark
 did no good — Cicuta, Mineral solution did no
 good — after 3 years pain she was advised to go to
 the country which gave great relief — but when
 she gets cold, she always finds it return —
 another case related, in which the crucial incision
 gave some relief —

sometimes nausea & vomiting —
 pupil sometimes dilated sometimes
 contracted —

Last summer I saw a case unlike
 any related by authors — a piece of
 the frontal was depressed and the
 violence of the blow killed the dura
 mater, so that it came away entirely
 as far as the bone was removed — fingers
 crechins followed & death —

0 have ants on largest entry of Dura
 mater —

Cranium

of Injury of the Brain occurring Compression of the Brain

stupor, drowsiness, loss of sense are the symptoms —
^{loss of voluntary motion, sterility, respiration}
 The cause is ~~compression~~ ^{depression} of the bone at some part,
 rupture of the vessels of the dura mater &c. Though
 a fracture of the skull has these symptoms, yet other
 accident will give such appearance. — I saw a
 Case of depression of the Scalp without compression
 of the Brain — when vessels are ruptured com-
 pression of the Brain does not always follow —
 I have seen fracture of the Cranium, in which no
 compression of the Brain took place in consequence
 of the fracture but in account of the collection of blood
 from the ruptured vessels — A mere fracture
 of the Cranium is by no means productive of the
 symptoms of Compression of the Brain — When the
 skull is depressed occasioning compression, the
 part should be elevated ~~and~~ or taken away — this
 is done with a Trephine by making a hole in the
 sound bone adjoining — in such cases, the treat-
 ment is simple — Sometimes compression of the brain
~~Crani~~ follows when there is no mark of injury
 to the scalp — Walsmethyl says that in such cases
 it is best to make a perforation of the parietal
 bone at the anterior, inferior part —

- (231)
- Inflam my ¹ ~~spinal~~ Conception —
- 2 a contusion without laceration —
- 3 fracture with a ~~entire~~ depression

in the end convulsions —

o W Pott calls this a puffy
tumor —

o W Pott ascribes this Inflammation to the
death of the bone — but it is owing to
the violent percussion the dura mater
receives by the blow on the bones — this
induces Inflammation —

+ without or without a fissure
or fracture —

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Injuries of Bones of the Head occasioning
Inflammation of the membranes &
Brain

This may take place without depression of the Brain.

The patient after appearing to do well for several days becomes restless, has flushed face, high pulse, convulsions, delirium and coma — these symptoms often occur in consequence of contusion of the scalp — when these symptoms supervene, you find the parts are tumified and a fluctuation is felt — you should open this and you will find the cranium denuded and if you wipe it, you find it of a changed color — scrape it and no blood is evident and it appears dead — if you perforate this with the Trophine, you find it separated from the dura mater on which pus is evident — sometimes besides this, pus forms between the dura and pia mater and often in the brain itself — it is well for the patient if the pus lie only between the cranium and dura mater — both cases are dangerous and I never saw a recovery after suppuration had taken place — Another cause occasioning inflammation of the brain is a lacerated & bruised wound of the scalp — the patient will appear tolerably well until the above symptoms occur — after this the inflammation on the scalp loses its good color and discharge fetid sanies —

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When a piece of bone is fractured in
Calcareous ~~cell~~ elevate it —

The symptoms of inflammation of the Bone
generally appear in 7 days after the receipt of
the accident injury — but it is sometimes much
longer before the symptoms appear — I knew
one case in which the symptoms did not ap-
pear till a year after the injury —

o pinching gives no pain —
Extremities are cold —

+ rather in the second stage when the
extremities are warmer, respiration &
pulse better —

This Inflammation sometimes follows a simple fracture without depression, but it happens also when depression is existing - when none of these symptoms occur in fracture of the bone, it has been a question whether to perforate the bone or not - Pott advises to do it - and I have followed the practice - I have determined never to perforate in such cases except symptoms of depression or some of the symptoms above mentioned are present -

In all these cases venesection is proper, purges, and low diet - if much inflammation is present carry the evacuating plan as far as practicable - after ^{the} patient will be ready for the operation of the Trephine - Mr Pott says

Concussion of the Brain - The patient is mostly restless, sometimes there is delirium, hard pulse, tendency to vomit and is injured by strong light, loss of sense, spasm, palsy in some part - As the effects of concussion diminish sense returns - In the first stage of concussion very little can be done - I think in the first instance cold water should be applied to the head - the pulse is low at first but rises and blood may be taken from the arm - apply a Blister to the head - if inflammation supervene bleed very extensively -

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When an animal is put under sudden death
direction there is no sign of excitation —
for the actions of the system are directly
suspended —

blood is always extravasated in the brain as
appears after death on dissection, of course thin-
-ulam or urine &c are very improper —

In a case of this kind at Penn's Hospital,
the stupor continued a long time after the
receipt of the accident and mercury cured it
entirely — it remains now to show you the
manner of using the Trephine — you must
first be provided with a very strong scalpel
with an iron projection at the end of the handle —
but another instrument is now called a
Raspatory — for the purpose of scraping up
the pericranium — the end of the handle of the
scalpel answers as well — the next instru-
-ment is a Perforator for the purpose of making
a hole through the external table of the cranium
for the purpose of receiving the point of the
Trephine — the next instrument is the Trephine
which is a circular saw with a pin in the
centre to fix it — a small brush is necessary
for cleaning the teeth of the Trephine — a
tooth pick is necessary to ascertain if the saw
has cut thro' any part — next an Elevator is
necessary — a pair of Forceps is necessary in
some cases to remove the piece of bone which
has been divided by the Trephine — the Senticulon is
used also but is of no importance —

+ previous to all this, I have the head

There is another instrument I recommended you to have - Saws of different size to remove large pieces of bone from the cranium - it is called Mr. Pless's saw and is described by him - also surgeons used what is called a Trepan - but this works too quick and is dangerous - needles, ligatures, tenaculum, sponges, basin of water should always be ready to perform the operation - the scalp in wounds where the Trephine is used, is often torn off - an incision thro' the scalp down to the bone is necessary - if necessary make a crucial incision, but never cut off any of the scalp - after this incision, separate the pericranium from the skull, with the end of the scalpel handle - now any arteries cut in this incision are to be tied unless you wish them to bleed - next the Perforator or the point of the Trephine is to be used to make a hole thro' the external table of the cranium - the groove being large enough the point of the Trephine is to be drawn in so as not to go beyond the teeth - the saw is to be brushed frequently or wiped with a cloth if no brush be at hand - after the Trephine is used a little while, use the toothpick to see what depth you have gained in the skull - after having sawed thro' the first plate it is

It is right to use the Elevator to see if the part
 be moveable - when you find into the Toothpick
 that one part is cut thro', take care, and do not
 press on that part otherwise you would depress
 the Brain - cut down first only to the vitelline
 plate and remove the ~~external~~ table with the
elevator - if an angular fracture exist along
 side of the hole made by the Trephine, use Key
 rans to remove it —

Do not cut down into the
 Trephine but break the vitelline
 plate into the Elevator —

After trephining of all the blood
 it be removed from the matter
 apply scalp and then puncture—
 but if blood remain and cannot
 be removed do not close the scalp
 but apply the puncture —

If the ~~frontal~~ ^{longitudinal} sinus be wounded stop the
hemorrhage by means of a dopil of lint -
When the ~~the~~ great artery of the dura mater
is wounded never take it up unless the
dura mater be completely opened - here it
will not increase the danger - where the dura
mater is not opened, a dopil of lint may be
packed between the artery and the β ramus
or if the artery runs in the bone, use a plug
of cedar as in similar cases -

after removing a piece of bone if the
dura mater be pierced after I have used
your knife, lay the scalp over it and
union sometimes takes place which
closes the cavity of the dura mater which
prevents inflammation -

+ every day for 5 days -

January 19th 1810

The older surgeons feared to trepan over the frontal sinus, but it may be done with safety — we ought never to refuse an operation over the frontal sinus — when pus or blood is situated between the dura mater and bone, the operation I have mentioned gives it an outlet — but it sometimes exists between the dura mater and pia mater — on removing the piece of bone the dura mater will rise and not fall and the motion of the brain will not be seen on the denuded part of the dura mater — the pulsation of the arteries will not be evident there either — under these circumstances some surgeons open the dura mater to evacuate the blood or pus contained — this opening is very dangerous — I have seen the opening made, but never saw a recovery — but some cases are related where recovery followed — inflammation always follows and in consequence of the great danger I would not puncture the dura mater — but I would bleed, purge and blister freely — I had a patient with a fracture occasioning inflammation of dura mater and I bled him till he fainted & turned, and purged and bled him — after you operate with the trephine all is not done — you must confine patient to a low diet, bleed and keep the breach always open — over the part the best application is a bread and milk poultice — but should not be used, the poultice is much better — in case, where there is ^{no} reason to suppose extravasated blood or pus existing, it

+ mercurial cathartics

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will be best to unite the scalp with Emp adh —
Potts work on Injuries of the head should be read —
Albemethys work —

Diseases of the eyes

Inflammation of the eyes ~~may~~ may be in the lids,
tunica conjunctiva, globe of the eye, cornea &
- there is at first little pain - at first bleeding
+ from the arm is good and low diet - Opt Camphor
may be used on the eyes - the eye is sometimes shut
and patients cannot open ~~then~~ here disease is in the
eyelid - the edges of the eyelid are diseased often -
an acid fluid is discharged and a slight degree of
Inflammation in the adnata - I believe the disease
consists in ulceration round the roots of the hair, &
thus resemble Furca Capitis - Spermaceti oil
is often used in this disease - I have used it with success -
the remedies mostly used are Ungt Citrinum & Ungt
Mercurial - it is melted and put between the
eyelid before going to sleep - I have used Ungt
Picis and it is an excellent remedy - I have
sometimes removed the cilia with Forceps - I have
also applied Leeches -

The tunica Conjunctiva is sometimes affected -
the vessels which formerly carried white fluid now
carry blood - this gives great pain - sometimes the
inflammation is only in one spot - the eye is very
irritable and we are hardly able to get a view of it -
this Inflammation travels to the Cornea rendering it
opaque and producing a film - the cause of this

Never use astringent collige until
inflammatory symptoms are greatly abated —

Sometimes external wound, acid matter, strong light
Intoxication, venereal disease - I knew a young man
to get this disease by washing his eye with his own
urine - he had gonorrhea & it affected his eyes - suppu-
ration took place in the cornea -

The Globe of the eye is inflamed often - it is attended
with pain & sensibility to light - when it is situated
in the anterior chamber, suppuration always follows -
if not soon relieved the pupil is fixed in all degrees
of light - pieces of sand often fasten on the cornea, they
may be removed with the point of a lancet - if there
be any extraneous body on the cornea or under the lids,
wipe it out with a rag, or inject with milk and water or
turn down a white lid with a probe - to cure in-
flammation bleeding is one of the principal remedies -
we may use cups on the cheeks, and leeches round the
eye - we also open the vessels of the adnata - we also
use purging - I prefer Mercurial Cathartics - to
the eye, the best application is milk and water -
when the inflammatory symptoms are moderated,
blisters are good over the eye - and behind the ear or on
the head - Dr Ware says Laudanum dropped in the eye is
very good - but not till inflammation is reduced -
I have used Sar water with great advantage as a
oblivium - this I have used in great inflammation -
it is an excellent remedy - when pus forms I have
opened the cornea, as in cataract - pus will be
sometimes absorbed, but otherwise open the cornea -
When inflammation is deeply seated the above rem-
edies as bleeding, purging &c freely - I have done it

[Faint, mirrored handwriting, likely bleed-through from the reverse side of the page. The text is largely illegible due to fading and orientation.]

without any regard to the pulse & to the state of the eye —
 confine the patient in a dark chamber, vegetable
 diet — use no spirit — sometimes issues are put in the
 arm to create depletion — I have told you that opacity
 of the cornea often follows — mercury to excite salivation
 is very useful — dropping molasses in the eye &c — when
 the opacity continues the eye may be relieved by an ope-
 -ration —

Inflammation in the anterior chamber often closes the
 pupil — this requires an operation

When a part of the cornea opposite to the
 pupil is opaque open the pupil behind
 a transparent part of cornea —

Mopus is a thickening of a part of the Cor-
 -nea sometimes requires to be dissected
 off —

Trichiasis consists in an inversion of
 the cilia so that they rub on the cornea
 & keep up inflammation — to cure this
 cut away a part of the tarsus completely
 from one canthus to the other — some re-
 -commend applying caustic human (or *Copie's*
infarnalis) to the tarsus —

+ at the puncta Lachrymæ and
sometimes down the duct to the nose —

Sometimes cauterizing applied externally
effect a cure — also lead punctices —
Syringes have been used to inject in the Puncta
Lachrymæ
o it is best to open the tumor rather
than let it burst because the scar
wounds can be left and we can then
introduce a probe to examine the
state of the duct —

January 22 1810

Distula Lachrymalis

It is impossible to be acquainted with the disease without a knowledge of anatomy — the ductus ad nasum is liable to structure whereby the tears are prevented from passing and a tumour forms in the internal canthus of the eye — whilst being pressed a matter is forced out — the swelling is removed by pressure — if the eyelids be closed at night it may be prevented afterwards by some soft substance placed between ^{them} — something round the tumour there is great inflammation — but afterwards there is ulceration on the anterior part of the tumour communicating with the lachrymal sac — this should be opened — and a small probe being passed into the canal from above gives relief — after this a bougie should be introduced and a piece of Emp. ash placed on the tumour — sometimes the duct is imperforate and here an artificial opening must be made by piercing thro' the Os Unguis — a piece of bougie is to be passed down thro' this opening and bent down at its upper end on the cheek — this disease is often accompanied with Caries — in this case the carious bone must be extracted — I next proceed to the operation — To perforate the Unguis and take a piece out I use a punch and for a resistance I have a horn made to pass up the nose and place it against

+ cut nearly in a line with the edge of the orbit

The nature of the ulcer on the ~~inside~~
inner ~~edge~~ canthus of the eye is misun-
-derstood often - it can only be cured by
clearing the ductus ad nasum -

+ this was first used by Jno Hunter -

The As. Unguis - The Lachrymal sac is always dis-
 tended with this disease and forms a tumour at the
 internal Canthus - it must be opened - you find
 the course of the duct by cutting in a straight course
 downwards from a little below the tendon of the orbic-
 ularis muscle - then you can pass the probe which
 goes generally about $1\frac{1}{2}$ inch - after this the duct may
 be dilated by a bougie only an instrument invented
 by Mr Ware it is a piece of silver wire with a head
 on it and bent at the top so as to lay flat on the cheek -
 this may be covered by a piece of black silk -
 this instrument is called a stilet - the tears can
 pass down the side of the stilet - this may be worn
 6 or 8 weeks - after this the wound is healed by Emp-
 adhesion something of that kind - patient does not com-
 plain of wearing this stilet - sometimes the duct
 is imperforate and here the Unguis must be per-
 forated as I told you - to do this the lachrymal sac
 must be exposed - the horn papered up behind the
 as unguis - then the punch is to be used to cut out the
 piece of bone - after making the perforation the ex-
 ternal wound may be healed directly -

The cataract is of two kinds
 grey and white - it is also ~~these~~
 very fluid and sometimes very firm -

256 Jan'y 24 1810

Cataract - By this is meant ^{an} opacity of the crystalline lens or its capsule - this disease is evident behind the pupil, filling often that cavity - before it is quite formed, must be born before the eyes - these exist sometimes long before an examination will discern them - Cataracts are often brought on without any exciting cause - sometimes mechanical accident occasion this disease - I know it formed by a needle punctured thro' the Cornea - this was only to be cured by Mercury - ~~many~~ ^{many} medicines have been used to remove cataract - Mercury is the best one - bleeding, blistering &c has been used - sometimes after opacity forms, it is dispersed if left alone to Nature - as medicines cannot remedy this disease we are under the necessity of resorting to an operation - there are two modes, 1st Conching - this consists in puncturing the sclerotic, the 1/4 part of a line beyond the cornea and the needle passed horizontally to the cataract is made to depress the lens to the bottom of the eye -

Extraction consists in making an opening into the Cornea and then puncturing the capsule of the lens and the lens may be taken out & if the capsule be opaque, it may be removed - both operations are practiced, but the latter is most common - the reasons why the latter is best are 1st It gives the patient less pain - Conching has occasioned the total loss of sight - patients have declared that extraction

The first of these is the fact that the
 system of the world is not a simple one
 but a complex one. It is a system of
 many parts, each of which is itself a
 system of many parts. This makes the
 study of the world a very difficult one.
 The second of these is the fact that the
 system of the world is not a static one
 but a dynamic one. It is a system of
 many parts, each of which is itself a
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 study of the world a very difficult one.
 The third of these is the fact that the
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gives the least pain - 2 - The Cataract being once taken out can never return, but in couching it is pushed only to one side and may afterward rise - it is said that the capsule is absorbed - it is in some cases but certainly not always - the cataract with sometimes float about in the eye even after being broken off - 3 When the cataract is blind it can be extracted, but it cannot be depressed - 4 When the capsule as well as the lens is opaque, you cannot depress the capsule but you can extract it thro' the orifice made in the cornea - if the capsule be tough, it may be depressed -

5 When adhesion exists between the iris and capsule the adhesion may be separated by the remedy of extraction, but cannot be done by Couching - sometimes the patient will be affected after the operation of Couching ~~often~~ - The inconveniences of Extraction are the effects of a bad operation - the first is ^{opacity from} inflammation - if a good knife be used and the operation fairly performed, this will not follow - this is therefore of no importance 2 In consequence of forcing the cataract thro' the pupil the Iris is injured; where the Cataract is very large this actually may take place - it is said that in making a section of the cornea, the iris will be cut, but this will not happen to a skillful practitioner - it always happens in consequence of pressure on the eye being too great - but the Iris is easily disengaged from the edge of the knife by rubbing it gently with a finger - The next objection is that by opening the eye, the vitreous humor will be forced out -

I acknowledge the vitreous humor has escaped, but it was the fault of awkwardness -

For these reasons then I have preferred Extraction - I have performed the operation of Couching - the first case was a child of 10 years old - I depressed the Cataract very easily and vision was happily restored - but in another case the patient could not bear the needle without much pain - I depressed the cataract easily - but in a few days, the patient complained of violent pain in the head - she appeared to have gutta serena - I have seen violent inflammation succeed couching and even a total destruction of sight - In the extraction of Cataracts I believe I have succeeded in 5 cases out of 6 - There is a circumstance attending Couching which I will relate - when the cavity of the eye is opened, the action of the ^{serum} vessels is increased - there is always a flow of humor two or 3 days after the operation - the accumulation of aqueous humor must be great beneath the sclerotic coat & this occasion paralysis in many cases and this only I could account for Gutta serena after operating for depression - In attempting the operation of extraction it is desirable to know that there is a chance of success - the eye should be free from inflammation - the eye should be natural except as respects the Cataract - women often have violent pains in the head, with Cataract - in these cases I direct depletion & then operate, but not before -

the best test by which we can decide as to the propriety of operating, is the ability of the patient to distinguish between light and darkness, if he cannot do this, the operation will do no good—

Dr. Physik has improved the Speculum oculi by fixing a ring near the lower end to admit the little finger—

it is deniable that the pupil should have its nat-
 -ural dilatation and contraction - sometimes the
 pupil is fixed, the optic nerve insensible & gutta
 serena exists - here the operation should not be done -
 But Gutta serena does not exist in all cases, where
 the pupil is unmoveable - immovability of the
 pupil sometimes depends on adhesion of the iris to
 the anterior of the crystalline lens - the contraction &
 dilatation of the pupil is not always a sign of sen-
 sibility of the Retina - of this I am certain from experience -
 before extracting the cataract the patient should lie
 down, be bled if the eye lids are inflamed; on the day
 preceding the operation the bowels should be emptied
 completely - to operate, it is necessary to apply a
 bandage round the head, with a compress over the sound
 eye secured and one pinned up for to cover the other
 eye after the operation - on account of the motion of the
 ball of the eye, specula have been invented to fix
 it completely, by inserting it between the eye-lids -
 such an instrument is altogether useless in Extraction -
 the great inconvenience of this instrument is that one of
 the hands of the surgeon must be employed to hold it -
 the eye can be held still without a speculum -
 the next instrument is a knife for opening the Cornea -
 the knife of Baron Wenzel is the best - its blade is $1\frac{1}{2}$
 inch long & $\frac{1}{8}$ inch wide, terminating in sharp point -
 one edge is very sharp and the point of the other edge
 is also sharp - the knife should be thicker as it recedes
 from the point, so as to act like a wedge in the incision -

* in a direction parallel to the Iris - the opening
 should be made by the Incision -

The knife should be very sharp — the next instrument wanting is a curved needle with a very sharp point — this is for the purpose of puncturing the capsule — on the other end of this instrument is a very small scoop — if the capsule must be extracted a nice, small pair of forceps is necessary to be at hand — the forceps should touch accurately at their end — Besides these a very small hook is necessary to raise the cataract when it falls down as is sometimes the case —

— Jan'y 26 1810 —

In operating for cataract the patient should be placed in an oblique situation with respect to the light for different reasons — the surgeon should have a full view of the eye & and should be seated higher than the patient — an assistant must stand behind the patient to hold up the upper lid — the lid should be first folded up & if held that way the patient cannot push it down — then the surgeon places two of his fingers on the lower lid — so that the eye is kept open — when the eye is still, the knife at its point should be applied to the cornea $\frac{1}{2}$ of an inch from Limbus scleroticus — then carry it across the cornea — after cutting the cornea the knife is to be ~~perched~~ ~~permanently~~ ~~to the incision of the cornea~~ — then a fine needle is to be introduced and passed thru the pupil to the crystalline lens which must be lacerated as much as possible with regard to prudence — then with moderate pressure you can force the lens out of the incision of the cornea —

+ the knife must be retracted
 just before it pierces the opposite
 side of the cerea & when the
 agnema hump escapes and the his fold
 folds - the fold is easily divided

but the lens is better removed by a fine needle with a hooked end ~~and~~ passed in and ~~the~~ the lens then it is easily extracted ~~the~~ the incision of the Cornea - if there be any portion remaining sub gently ~~the~~ this brings the fragment forward which may be removed with the hook -

When the Capsule is opaque it is to be removed by a small pair of Forceps - sometimes the capsule is tender and comes away little by little; in this case patience is necessary to use the forceps often -

after the operation the eye is to be closed, a small compress is to be placed over it and secured by the bandage formerly mentioned - the bandage must not be applied too tight - the patient should be placed in bed on his back and to prevent him from raising his hands to his eyes I tie them with tape to the bedstead - for patients in waking are apt to rub their eyes -

The diameter blade of your knife for cutting the cornea should be more than half the diameter of the cornea for you should make the incision at one stroke -

Artificial pupil - this should be made in centre of the Iris - the bandage above mentioned are to be applied - the curved knife is to be passed as before till it reaches the centre of the Iris, when the point is to be depressed - in this depression a kind of semi-circular flap remains, which may be removed by a fine pair of scissors introduced - or it may be removed by a kind of forceps with sharp points, which act like pinchers -

It is best to puncture the sclerotic into a sharp pointed
scalpel before passing the needle, for some force is
otherwise necessary in introducing the latter instrument—

In other cases, the iris has seemed to be tense but in making the last mentioned operation the iris contracted and a beautiful pupil was formed at one operation - in other cases, where a part of the cornea over the pupil is opaque, you can remove a part of the iris behind a clear part of the cornea -

After having performed this operation successfully, inflammation & suppuration may follow, & as there are risks, the patient should be informed of the fact -

An Cauching for Cataract I have yet to say something - Mr Hey has contrived a needle quite round and straight, very small at the upper end and growing gradually smaller till it terminates in a very fine point - another needle is in use which is curved at the point. This I have used - to operate, the eye is mostly fixed with a speculum - the needle is introduced at a very small distance outside of the cornea, thro' the sclerotic - at a distance of about $\frac{1}{4}$ of an inch - then the needle is to be turned and worked about in the lens - but I have told you my reasons for preferring extraction -

For Scarification - I now show you a needle small knife - it is used to divide the vessels of the eye - it must be very sharp -

+ which ought naturally to occupy the cavity of the abdomen —

Part of the intestinal canal or omentum are the most common contents of hernia — but there are instances of rupture of the stomach, uterus, liver, spleen and bladder

When the tumour is confined to the groin the hernia is said to be incomplete and is termed Bubonocoele

When it reaches the bottom of the scrotum it is said to be complete and receives the name of Oscheocoele

When a portion of Intestine alone forms the tumour it is Enterocoele or Intestinal Hernia —

When a piece of omentum only protrudes it is Epiplocele or Omental Hernia

When both Intestine and omentum are down it is called Entero-epiplocele or Compound Rupture —

Hernia are termed Inguinal, Scrotal, femoral, Umbilical, and ventral.

Hernia - by this term is meant a protrusion of
 + some part out of its right place - it takes
 place at the umbilicus, abdominal ring &c -
 When the tumor appears in the groin the intestine
 passes down by the abdominal ring along side of the
 spermatic cord -

all the different viscera have been found protruded -
 There is a species of hernia termed Congenital Hernia -
 this is a passage of intestine down into the tunica
 vaginalis at birth, with the testis -

Inguinal Hernia - this begins with a tumor
 at the abdominal ring and passes down & grows
 in layers till it gets to the groin - it may be re-
 duced generally by the patient when lying down -
 The intestine passes along side of the spermatic
 cord - we know a hernia by the following symptoms -
 1st By its passing from the groin downwards 2 By
 the tumor increasing on standing 4 By its
 growing less on lying down 5 By the tumor being
 in an irregular and constant state - It is of great
 importance to be acquainted with these symptoms -
 Hernia may be known from Hydrocele by the
 latter commencing low down in the scrotum &
 it is not enlarged by coughing - the parts are also
 of a diaphanous colour - a vesical bubo resem-
 ble Seminal Hernia, but the bubo cannot
 be dependant in size by pressure or increased by cough-
 ing - the small testicle can also be discerned

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from Hernia - for the swelled testicle is never altered by coughing & there is a flattened appearance at the sides of the scrotum -

Jan'y 29th 1810 Monday

The causes of Hernia are various - General debility ^{here} induced often produces Hernia - violent straining of the abdomen occasions it - costiveness, tight clothes, pumping &c. occasion it - as long as a portion of intestine is in the hernial sac so long will it be subject to risk of strangulation - Patients can often reduce the hernia themselves - As long as the bowel remains down the patient is not safe for stricture may take place - Some have thought ventral Hernia not dangerous, but this is incorrect - an instrument called Truss has been invented for the purpose of retaining the bowel up in the abdomen after reduction is effected - before the application of this instrument the patient should lay down, the contents of the Hernial tumor forced up entirely which may be ascertained by feeling the part - then the pad of the Truss is to be put over the orifice of the Hernia and the Truss fastened on - in general this instrument is applied down too low and the spermatic cord is often compressed and the pain thereby increased - another inconvenience is that by this way the hole of the Hernial sac is not closed - the Truss should be fixed so that the pad press on the orifice thro' which the Bowel protruded - this is the only bandage in use -

The first of these is the fact that the
 system is not a simple one. It is a
 system of many parts, each of which
 has its own function, and all of which
 are interrelated. The second is the fact
 that the system is not a static one. It
 is a dynamic system, and it is constantly
 changing. The third is the fact that the
 system is not a closed one. It is an
 open system, and it is constantly
 interacting with its environment. The
 fourth is the fact that the system is not
 a linear one. It is a non-linear system,
 and it is constantly changing. The fifth
 is the fact that the system is not a
 simple one. It is a complex system, and
 it is constantly changing. The sixth is
 the fact that the system is not a static
 one. It is a dynamic system, and it is
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 one. It is a dynamic system, and it is
 constantly changing.

After Truss is applied the patient should not use much exercise — else the hernia will again form — the bowel should be kept open — straining should be avoided — the truss should be worn night and day — children should wear it for some time but adults should always wear it — In some cases, the tumor being large the hernia is not readily reduced — here the patient should lay down on his side — be bled, purged & and after 16 days the hernia may be reduced & then the Truss should be applied — There are some cases, in which the hernia cannot be reduced on account of the alteration in the shape & form of the bowel, on account of adhesion being formed — here the hernia should be supported by a suspensory band — sometimes the bowel performs their function well but not so always.

Strangulated Hernia — here the tumor becomes tense nausea & vomiting comes on and faces are thrown up — sometimes the stricture is so great that the blood sent to the incarcerated hernia stagnates — sometimes no blood is sent to the bowel so strangulated and mortification ensues — the scrotum becomes dark, pulse full and the patient will soon die — when death takes place the tumor acquires a dark colour &c — on examining the contents of the sac after such symptoms it contains serum of a dark brown colour — sometimes the whole is gangrenous — "A stricture may be produced by the contraction of the & abdominal muscles" —

+ Immediately after strangulation pieces
are discharged - Here from the parts below
the stricture -

O pressure should be moderate -

+ In acute Hernia where strangulation comes on
suddenly, purgatives do harm - they may be
useful where the disease is chronic

+ Make it into 3 i of Tobacco and 1 pint
of warm water - inject one half of this at
once -

Sometimes the strangulation begins above the abdominal ring. I have mostly found the stricture at the ring.

The treatment of Strangulated Hernia

The bowels are generally in a very costive state. The patient should be laid on his back and the abdominal muscles completely relaxed - pressure should be made on the tumor - if this succeed not bleed, use warm bath, glysters of tobacco juice & - bleeding should be used ad deliquium - if this fails the warm bath should be used and the taxis attempted - I always use mild purgatives as Crem-tart & Jalap - Purgative glysters are used but if they sicken prevent their use - While the intestine remains strangulated purgatives do no good - The Tobacco glyster has been most useful - The infusion is used generally & you may inject every half hour if no vomiting is induced - When the sickness & fainting are produced by the Tobacco, the tumor becomes soft and the bowel papes up - if this fails, the ^{cold} application should be resorted to - ice is used - equal quantities of crude sal ammoniac & water create great ~~heat~~ cold & this may be applied - this often succeeds - Opriates are always useful by suspending for a while the vomiting - an adult may take ℥ 1 gr. by the mouth and an injection of Laudanum containing ℥i Laudanum -

+ Patients have survived who have had
their intestines in strangulated state 17 days
0 and the wrists are cold -

+ Scratch a hole in the tendinous fibres under which
introduce a director and then cut away -

+ To divide the stricture cut directly upwards -
for cutting upwards would wound the Epigastric
artery and as this vessel sometimes runs
outwards external to the sac, so cutting upwards &
outwards would do mischief

If there do not succeed an operation becomes necessary — the time when this should be done, is uncertain — many have died by delaying it — It is best always to have recourse to it after the above have been tried. Hernia has proved fatal in 8 hours — the operation may be performed tho' the pulse is weak and the countenance pale — small hernia are often more difficult of reduction than large ones, and recent hernia are sometimes more difficult of reduction than old cases — When the stricture is so great as to prevent the flow of blood the body becomes cold and mortification soon succeeds —

The operation consists in dividing the parts covering the bowel — an incision should be made from above the abdominal ring down to the bottom of the tumor down to the tendinous fasciæ, some of the fibres of the cremaster muscle are soon seen which must carefully be cut through — then a hole must be cut in the sac — in the sac a quantity of fluid is often found — but sometimes no fluid is found — by passing the finger up to the ring you feel the place of stricture — this should be divided with care — after having dilated the stricture the bowel are to be pushed up — this is the method is usually employed —

* A fellow might as well have hernia as be
compelled to read such an apology for writing as this is.

+ This practice was recommended by Dr. Mann
it saved the trouble of opening the sac in
some cases —

May 31 1810

Before operating for Hernia the Pubes should be shaved and patient placed on a table — scalpel, director, tenaculum, sponge, water & should be ready — an incision should be made from above the pubes down to the sternum — the tumour commences just about the pubis — begin your incision two inches above the pubis — the object of this incision is to lay bare the tendon of the External oblique muscle — the abdominal ring &c — having exposed the external oblique muscle you are to scratch a hole above the ring ^{in the tendinous fibres} and that to pass a director down under the ~~stricture~~ ^{then the sac may be opened by cutting along the groove of the director} — when gangrene or mortification exists the sac should be opened — when the ring is cut thro' if that be the cause of stricture, the taxis may be performed — if we cannot succeed by this operation the sac must be opened — here the bowels are often found adhering to each other or to the sac — the adhesion must be separated and then the bowels can be forced up — but if a part of the omentum be enlarged cut it off and tie the remainder so as to secure the blood vessels — the difficulty of separating adhesion is often great — and in many cases when returned will not perform their functions — where the adhesion is very great I believe it would be best

Where the intestine is mortified in one or two spots it is best to leave that part of the canal at the ring - the dead parts will slough and the opening be gradually closed - inflammation takes place in a few hours - when there is a hole in the intestine occasioned by mortification - then a pen stick may be used and the intestine placed opposite the ring the stick will pass per anum on the surface - when a whole cylinder of intestine is dead some have advised to cut away the mortified parts and use suture - but it is best to lay the mortified canal at the ring and Nature will speedily remove it -

+ Writers have recommended sticks in the anus to secure the gut from slipping into the belly, but there is no occasion for this practice - the canal should be kept at the same mortified part should be merely laid out of the ring - leave the rest to Nature

merely to divide the stricture and leave the
 Hernia in this way for if we ~~use~~ use great
 efforts to remove the adhesion to the sac, and
 get the bowels up, they will not perhaps per-
 form their functions as well as when in the
 sac — the sac should always be opened when
 we suspect mortification this is known by the
 change of colour of the tumor from red to a dark
 colour — it grows tumid — and the pain be-
 gins to grow less — sometimes a part of the bowels
 sloughs and an artificial anus forms —
 When the sac is opened examine the bowels — they
 are often inflamed — but if the stricture has
 continued long the intestine will be of a dark
 brown — after seeing this if or before you
 think circulation is going on, return it into
 the abdomen — if the part be mortified its
 texture is destroyed and it has an offensive
 smell — this should never be returned —
 Some writers say it may be returned and will do
 no harm — perhaps it is best to pass all the
 bowels in the ring except the mortified part
 + which should be ~~left at~~ ^{left at} the ring by the ~~mercurial~~
 This is the practice I have used — the mortified
 part will slough off and the intestine will
 retract and the aperture be gradually healed —
 Abemethy recommends 4 stitches to be made
 thru the mortified portion & ring —

I had a case of Ing. Hernia in which after opening the sac no gut was found and the finger passed up into not find an opening - dissection showed the neck of the sac filled close with omentum and the sac drawn up considerably into the abdomen —

I had a case in which the intestine mortified and both ends opened externally — I made a lateral communication between the sides of the intestine giving there a passage for the feces the external opening gradually closed up —

Feb 2 1810

After the intestine is attached to the omentum must be reduced if in a sound state - if mortified it should be cut off - arteries, being cut must be secured by ligature, which must be laid outside of the wound - care, are met with where it is uncertain that the omentum is alive or dead - if dead and returned to the abdomen it is fatal - in the dead state the blood is found coagulated and by cutting, the part will not bleed - if alive it will discharge blood on being cut - this is very important for a piece of omentum mortified, if put into the abdomen will kill the patient most certainly - after an operation for incarcerated rupture the best means must be used for healing the parts - sticks should be used not Eup. ash. - patient should not strain nor use much exercise - if signs of inflammation come on bleed, purge, blister, give low diet - when the wound heals, apply a truss -

Femoral Hernia - here the tumor exits on the upper and fore part of the thigh - it is most common in females; seldom occurs in men - whenever patients labour under symptoms of strangulated Hernia, open the tumor, let the Hernia be of what kind it may - it is most safe to make the opening and if the tumor should be

The intestines are ~~are~~ situated at the Uterus anterior
to the great Cerebral vessels -

+ the tumor never lies under the Fascia
lata

The stricture is mostly produced by the reflected part
of the tendon of the external oblique muscle which
is attached to the ~~or~~ symphysis pubis - this reflected
tendon called the femoral ligament or crural arch
is to be divided fibre after fibre in a cautious way for
fear of wounding the Epigastric artery and the obturator
artery which sometimes takes a winding course -

The Spermatic cord may be avoided readily by dissecting
it a little from its attachment and then passing a blunt
probe under it to elevate it a little.

Umb. Hern. occur at birth, in infancy and also at
adult life -

+ The ligature is to be applied so as not to give pain - it is
increased in tightness daily until it separates - this is
in 8 or 10 days -

only an enlarged gland, this may be extirpated. in reducing femoral hernia, push the tumor downwards, from the Poupart's ligament, then backwards, then upwards - in the femoral rupture, the covering parts, skin and cellular membrane and then a transverse membrane, the last of which being opened, you come in contact with the Sac - in femoral rupture the sac contains less water than in Bubonocoele and the parts are also thinner - the ring is to be cut with all possible care, in order to remove the structure - the incision should be made towards the os. pubis - but in females you may cut upwards and inwards for there is no fear of hurting the spermatic cord - the incision need not be very large

Unilateral Hernia - here the bowel protrudes at the navel - this mostly occurs in infants and it often closes up by a natural process - the mode of treating this Hernia is to put a pad over the aperture and compressing the part - it has been advised to push in the bowel and then push pinch the part together and tie them with a ligature - this is said by Desault to succeed in all cases - for a few days the parts will tumefy, but this soon ceases - Desault directs a ligature run to be passed around the bottom of the part so tied and the tumor in a short time sloughs - this is a safe operation -

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Desault's operation fails
in patients 9 years old —

Compression is also used —
+ the integuments are very thin — cut thro'
the sac, within an inch of the opening in the abdomen
after reducing the intestine tie a
string round the neck of the sac to
close the cavity completely — do this by
passing a needle in the adipose matter
under the skin round the neck of the
sac and then tie —

To prevent the protrusion of the bowel after a truss has been lately invented which is to be applied after the parts have been placed in their proper position - This truss has a pad in the front of it - if all these remedies fail, an operation must be performed - caution is necessary in dividing the part, otherwise the intestine may be wounded - after the incision is made and the stricture exposed, pass your finger in it and divide it - I would cut down to the fascia of the Recti muscle, which division exposes the tendon forming the ring; the fibres of this ring are to be cut and the bowel may be returned with ease - This mode has been tried in this city -

Feb 5th 1810

It sometimes happens that in one hernial sac there exist two or other sacs - Such a case happened in Dr. Dasey's practice, at the Philadelphia Almshouse - In some cases of old Hernia the sac is very thick - sometimes the sac is absorbed and the hernia is covered only by the skin - The Epigastric artery sometimes lies over the inside of the Hernial sac - but it lays sometimes outside which shows the necessity of caution in making incisions - Herniae of the Bladder have no sacs - sometimes Umbilical Herniae have no sacs - the sac sometimes is the seat of stricture - Herniae often vary with respect to the contents of the sac - the Omentum and Spleen are most often ~~the~~ the contents of Hernial sacs -

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+ In Ichinus testicle you feel the rough & uneven state
of the testicle -

Cases are related in which part of the Hamach has been joined in a sac - Mr Pott has seen a case in which the crania existed in a Hernial sac - Hernia of the Kidney have existed - more than one Hernia will exist in the same person - this disease is very complicated -

Hydrocele - this is a collection of water in the scrotum - there is one kind in which the water is situated in the cellular substance - sometimes the water exists in a cyst -

The anasarca Hydrocele is a symptom of Dropsy - the skin is nearly of a natural colour - the skin feels dry -

Sometimes there is a collection of water in the tunica vaginalis - here the tumor increases gradually - this species commences at the bottom of the testicle and is mostly one side first - at first it is generally compressible - it is important to distinguish this disease - it may be distinguished from Hernia by the tumor beginning at the bottom and rising upward - the reverse in Hernia - the tumor of Hydrocele cannot be done away - but the Hernia on lying down can be made to disappear - in Hydrocele you can feel the spermatic cord, not so in Hernia - Hydrocele may be taken for a tumor of the testicle - Another species of Hydrocele is where the water is collected in a cyst in the spermatic cord - the skin is often diaphanous -

+ there is after a rupture of
 a vessel in the *Tunica vaginalis*
 occasioning a purple color ~~but~~
 giving apprehension of mortification—
 the blood is soon absorbed —

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the swelling by pressure can be removed
from the scrotum up towards the abdomen —
pressure on the side, makes no alteration —
The use of a suspensory bandage sometimes
prevents the necessity of an operation — but
sometimes the surgeon is called in to discharge
the water — setons and scarifications should
be avoided — it is best to make a number
of punctures with the lancet — sometimes, the
anasarcaous Hydrocele ruptures by accident —

Hydrocele of the Tunica vaginalis has been
treated with medicines — I have directed cold
water to be poured on the tumor — we are called
often to evacuate the content of the tumor — this
is done by a trocar — I puncture with a lancet —
simple as is this operation, some surgeons have had
difficulty in performing it — it is necessary to find
the situation of the testicle before puncturing the part —
The old practice of opening the tumor was by an
incision — then the tunica vaginalis was entirely
removed — some surgeons used Caustic over the tu-
mor — this was kept on till the integuments were
burnt through — another mode was by the introduction
of a tent — this was kept in until suppuration came on —
Mr Pott advocated the cure of Hydrocele by the introduction
of setons — this method has succeeded in some cases —
The next method of treating hydrocele is by strong
stimulating injections to excite inflammation —
wine is used for injection diluted with $\frac{1}{2}$ water —
of these methods, that of Incision is certainly the best
though the most severe & painful

+ I use a Can cet ~~not~~ the
trocar to puncture the scrotum—

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for here you have an opportunity of seeing the
appearance of the parts - it happens however that
when lint is put between the testicle and tunica
vaginalis some threads are apt to remain & create
suppuration after the operation has been done for some
time - the other methods mentioned have succeeded &
they have failed -

The inflammation attending the injection of wine
is very mild and the pain of the operation is not great -
the operation may therefore be often performed -
To perform this operation you must have a trocar
and a bladder with a stopcock in which there is
some port wine diluted with $\frac{1}{3}$ water - you
then plunge the trocar in and then draw out the
stylet - I always hold fast the integuments round
the trocar - having evacuated the water - the pipe
of the bladder is to be fixed into the ^{canula} of the trocar
and the fluid forced in - the bladder is taken
away and after the fluid has been in awhile (5 minutes)
let it flow out again and cover the parts with Emp-
adh - support the parts with a bandage

The method I would prefer is by incision -
Mr Hunter cured this disease by making an incision
into the tunica vaginalis and stuffing the cavity with
dough - ~~in 3 or 4~~ lay a piece of lint over the cut surface
in 3 or 4 days inflammation & suppuration took place
and the dough was discharged with the pus - the discharge
was in proportion to the contraction of the cavity of the
Tunica vaginalis.

there is an Itching at
the glans penis -

Feb 7th 1840

The matter of Stone exists in the Urine and Stone are found in many parts of the body - Urine of the most healthy persons will by long standing deposit calculeous matter - by sawing a stone in half we find it disposed in layers of different thickness and of different colours - Stones are formed in the ureter, Prostate gland &c they give great pain - I believe the stone exists in most cases, originally in the kidneys, and is washed by the urine into the bladder - But stone is sometimes formed in the bladder - The symptoms of stone are, heavy obtuse pain in the loins - coffee coloured, bloody urine - there is sometimes violent pain, spasms rigors &c - vomiting is induced by the exertions of Nature to get rid of this inconvenience - sometimes fever runs very high - when the stone is in the urethra, there are violent retchings - here warm bath, & piasters, glysters &c are very useful - we may suspect a stone in the ureter when there is great pain along the course of this tube - patients should use barley water - if the stone be not soon discharged from the ureter it will enlarge, become very painful and occasion a suppression of urine - sometimes the ^{stone} urine is carried down with the urine - the urine evacuated while the stone is in the urethra, is very foetid, and is sometimes mixed with blood - this is sometimes attended with Tenesmus and Prolapsus ani - The digestion is interrupted, patients grow weak and if the stone be not extracted, the patient will soon die - Inflammation and Ulceration of the neck of the bladder will often show symptoms of stone - I have seen such cases - Hemorrhoidal tumors show symptoms of stone in the bladder in many cases - Stone has existed in the bladder a long time without any signs of it - When small pieces of stone are discharged from the urethra, we may suspect

the existence of stone — The most certain mode of
 ascertaining the existence of stone in the bladder
 is by performing the operation called Sounding —
 this is by passing an instrument bent like the urethra
 and introducing it into the urethra — the sounding
 instrument striking against the stone will easily
 discover its existence by the noise which will be evi-
 dent — the sound should be previously warmed and
 dipped in oil — the patient should lay down and the
 sound be passed in with the concave side next the ab-
 domen — it will pass easily in most cases — but it
 sometime passes with great difficulty at the mem-
 branous part of the urethra — here we succeed by vary-
 ing the manner of introducing the sound — turn the
 convex side next to the abdomen and it will then
 mostly pass — but you can mostly succeed by intro-
 ducing the finger into the anus and feeling the course
 of the sound — these methods should all be tried —
 I have found it easier to pass the sound when the pa-
 tient stands up — the same rule are necessary
 in introducing the Catheter — sometime the stone
 seems to have formed a pouch at the posterior part
 of the bladder and the sound passes over it — in this
 case pass the finger into the rectum as before directed
 or elevate the pelvis as high as possible —
 When a stone is known to exist in the bladder an ope-
 ration must be performed — no medicine can do more
 than palliate the disease —
 Lime water affords relief — matters are injected to the
 bladder to give relief, but they are not of importance —
 In a fit of the stone, warm bath, opiates and de-
 melcents are best — small portions of stone pass into
 the urethra and occasion suppression of urine —
 these pieces should be extracted as soon as possible —
 The instrument I use for this purpose is a silver

of different sizes & shaped forceps
 a pair of forceps with a point to hold
 a needle so as to resemble common tere-
 venous force taking up the pubic artery—

+ Some Haffs are grooved
 behind others on the side— the
 former are mostly used —

+ always introduce the Haff first—
 & hold down the ~~and~~ in his axilla &
 covering the foot of the patient with
 his hand—

probe flattened at one end and bent up in the form of a hook — it must be oiled and passed into the urethra and extract the stone with ease — I used this instrument with success last fall — but when the stone has formed a sac, it can be extracted only by an external incision — the external incision should be quite large so that the urine will escape externally and not pass into the cellular membrane — if the latter takes place, mortification ensues —

The operation of Lithotomy — Before proceeding to this operation, the bowels should be well opened and low diet attended to — the day before the operation, give Castor oil — the perineum should be shaved of its hair entirely — the patient should be laid on a table about 22 inches wide — the table should be covered with blankets and a pillow be placed on it — before the operation, the lower bowels should be cleaned out by injection — and an hour previous to the operation, give a dose of calomel — warm water, basins, towels, sweet oil should be ready — The Instruments necessary are a grooved staff — a fillet should be ready to secure the hands and feet — a common scalpel and sharp pointed Bistoury — a Gorget — needles, ligatures & Tenaculum —

Operation — Having introduced the staff, the hands and feet of the patient should be tied together — the patient should be requested to have his hands hold his leg with his hands — assistants should press down the knees — the surgeon should be seated before the patient — the staff should be bent over the right groin — an incision is to be made with the scalpel beginning below the veretum and carried down an inch below the anus, backwards — next divide the Transversales perinei muscles and give thus a pose

+ the history is much the best
instrument —

+ in doing this case must be observed
to depress the handle of the
forceps, else it will slip from the
staff —

I once suggested divide the urethra
with a scalpel — but I think
this not so safe as the forceps —
bad consequences result from its use —

+ take up the pudic artery
with the small forceps and
needle as before mentioned —

the prostate gland and membranous part of the Ure-
 thra and you can easily feel the groove of the staff,
 you now cut the urethra and Prostate gland with
 the scalpel, but I care for this purpose the sharp pointed
 Bistoury - by using the latter I have saved much
 + time & by one stroke I lay bare the groove of the staff -
 the Gaget is next to be laid in the groove of the staff -
 after raising the staff at right angles to the body I cut
 + with the Gaget into the bladder - then I withdraw the
 Gaget and leave the staff in the Urethra - the Gaget
 must be extracted with great caution - then introduce
 the finger into the bladder through the wound - when
 I find the bladder is cut sufficiently I withdraw the
 staff - then I oil the Forceps and introduce them
 into the bladder - Having grasped the stone I intro-
 duce my finger to see whether I have the stone by
 the smallest diameter - I then introduce another
 instrument which act as a third blade to the
 forceps and with these I extract the stone -
 after extracting the forceps stone, pass the finger to
 see if there be another stone and if so extract it -
 sometimes the stone is very soft and it breaks at the
 first grasp of the forceps - to extract these fragments
 you must have a large syringe and inject
 warm water or what is better, Barley water
 after the stone is extracted, attend to the Hemorrhage -
 the patient is to be untied - the ~~lower~~ parts must
 be brought into contact and the patient put to
 bed with a sheet folded several times under him -
 so that when ~~that~~ under him gets wet, it
 may be drawn out & part of the
 roll that is dry will be under him -

It is called a simple Fistula when there is an external opening as well as an opening into the Rectum - Occult when there is no external opening but the opening exists in the Rectum - Incomplete when only an external opening exists without a communication into the Rectum -

Fistula in Ano may occur & does occur without acute pain - there is merely a hard tumor near the anus - but this if not relieved will soon end in Suppuration and then it must be opened & treated accordingly - the best way perhaps is to use progs, low diet &c on finding hardness in the part whether there be pain or no -

Strangury is produced by the tumor pressing against the bladder -

July 9 1840

When the stone is too large to be extracted whole it must be broken by a pair of forceps of a particular construction—

Fistula in ano—This disease is the consequence of inflammation in the cellular membrane near the anus & rectum—sometimes there is a troublesome tenesmus & bearing down—the inflammation terminates in suppuration and separates the rectum from the buttocks—after the abscess is evacuated the disease is termed Fistula in ano—When the matter is discharged thro' a small opening it is called imperfect—when there is no external opening it is called occult—It is always necessary to make an examination by passing the finger into the rectum and a probe into the Fistula—if the latter be perfect, the probe will be felt by the finger in the Rectum and vice versa—in some cases, the abscess is very large—sometimes a considerable part of the rectum is denuded—sometimes the disease is complicated with Carcinoma of the rectum—the cause of this disease are various—an early examination of patients should always be made—by this we prevent suppuration and the formation of a perfect Fistula—whenever the inflammatory symptoms are discovered, blood is to be taken away—give purges, low diet—when straining comes on, use warm bath, opiate and if these do not succeed, draw off the water with a catheter—These means when timely used are generally effectual in removing the inflammation—but unfortunately we are not often called in, until pus is formed and is escaping at different parts—

One reason why this is so long getting
cured is that the patient by walking
~~rubbing~~ rubs the edges of the sore against
each other and it becomes callous — and
the tumour though once opened is suffered
to heal too soon —

Where the fistula is so seated that dividing
it would give occasion to the patient to rub
very much & heal, after I apply a string
in order to cut through gradually by this means —
the string after awhile affects what the knife
would do in less time —

+ There are several contrivances to obviate any
injury into the sharp bistoury — for this purpose
bistouries are constructed with Guards to them —

Where the fistula runs very high up, a seton of Baden
wire is to be introduced by means of a cannula &
into the fistula & brought out of the rectum with a
forceps or an iron instrument resembling forceps —
the seton divides the part gradually between the
rectum & fistula and flesh forms round about the
seton — Mr. Pott says this is not necessary — but I would
always use it where I could feel a large blood vessel
pulsating in the rectum — ~~it is not necessary to use it when the~~
~~fistula runs in the rectum~~

we should always open the abscesses—
 If Nature be unequal to the cure, we must
 resort to an operation— when the Fistula is incom-
 plete and the external opening small, pus collects
 and distend the cavity greatly— when the fistula
 is complete, faeces are discharged into it at every
 stool— When the matter and abscess proceeds into
 the rectum, the latter partake of the disease—
 sometimes, a large cavity filled with pus is found
 on one side of the rectum without any external
 opening— Sometimes, a part of the sphincter
 ani is completely removed from the ~~the~~ anus by
 ulceration; this being the case, some blood is
 mostly discharged at every stool— The general
 health of the patient influences the state of the
 sore— The operation consists, in dividing the Rectum
 up as high as the Fistula runs— this allows a
 free opening to the sore and a discharge of the
 matter— the Sphincter ani being cut the anus
 will not now be drawn up at the time of stools—
 I refer you to Potts works—

+ When the fistula is complete, the operation consists
 is easily done with a blunt pointed Bistoury—
 I lay on the blade of the bistoury a piece of linen
 covered with wax heated, so as to prevent the edge
 of the instrument from doing harm— The Bistoury
 is passed into the Fistula and the sides forced
 into the Rectum and when the point of the Bis-
 toury can be felt by the finger, the linen is to
 be pulled out and the part are to be divided
 by the Bistoury— after dividing the parts, lint is to be
 placed between the edges of the sore to prevent its imme-
 diate healing— the cavity grows less daily and at
 length heals—

In all aneurisms (says Scarpa) the artery is ruptured
 and the blood goes into the tendinous sheath round
 the vessel

Feb 12th 1810

Aneurisms - By this is meant a morbid deviation from nature in any part of the arterial system - Sometimes the aneurisms are confined to parts, and sometimes the whole arterial system is disposed to this disease - The tumor is formed by the force of the blood acting on a weak part of the artery - I have seen an aneurism in the ham occasioned by contusion of the popliteal artery - but contusions seldom occasion aneurisms - This disease often takes place without any obvious cause - the inside of an artery so diseased loses its fine polish, the artery becomes thinner, dilates and gives rise to the formation of the tumor - tumor and pulsation always attend recent aneurisms - but in old ones the pulsation is not very evident - This is owing to the formation of coagula within - the skin retains its natural colour until it bursts - In recent aneurisms we are able by pressure to remove the blood from the aneurism, but it returns on taking away the pressure - When the dilation of an artery begins it goes on slowly - when the aneurism increases so largely as to press on the skin greatly it bursts and the patient dies of hemorrhage - they sometimes burst inwardly - On examining the artery we find the dilation to be on one side only - The thickness of the aneurismal sac is as great as that of the artery originally - the sac is formed chiefly of cellular texture and not from the artery only -

There are some cases where the sac
may be opened before taking up the
artery - as where the tumor is so very
large as to make pressure on the small
vessels in the vicinity.

The coats of the artery are frequently absorbed — the thickness is diminished on that side of the artery farthest from the artery heart — inside of the artery we find coagulated blood — little relief is found from medicines — low diet, rest &c may retard its progress — when seated on the limbs, compression is recommended, but it seldom does much good — Aneurisms have appeared to get well spontaneously —

The most frequent situation of aneurism is in the ham — here it is called Popliteal Aneurism — there is a tumor sensible to the patient, and a pulsation in it — soon the leg feels numb and there is some pain which increases and the leg swells — The older surgeons treated this disease with a tourniquet above the knee over the artery then an incision to be made over the sac and the orifices of the branches entering the sac were to be found and the parts dissected away and secured by ligature — Sometimes a violent hemorrhage came on which would kill the patient if amputation were not performed — This is owing to the sac being improperly managed — In consequence of frequent failures in operating for aneurisms, amputation of the limb has been resorted to at once — The failure has been attributed to a diseased state of the artery independent of aneurism — Mr. Hunter cuts down to the artery in the middle of the thigh and ties it up — This operation generally succeeded — I have seen this done in Popliteal aneurisms — but it was where the tumor was very large —

o open the abscess soon else it will
after burst into the cavity of the knee joint -

+ at its inner edge -

The two ligatures being applied you are to divide the artery
between them - the ends of the vessel retract considerably -
if you do not cut the vessel - its tense state may cause inflam-
-mation, suppuration, sloughing of the end of the vessel and fatal
hemorrhage -

o this is Abernethy's direction -

Aneurisms sometimes occur at the bend of the arm - they are produced
generally in bleeding, by puncturing ^{together} with the basilica vein the brachial
artery at the same time - the aneurism sometimes forms between
the artery and vein - separating them - the sac consisting of dense
cellular membrane - sometimes the aneurism affects the arm above
and below the orifice a considerable distance - treat it by cutting
down to the blood vessel, and sac - tying the artery and vein above
and also below the sac and removing the part between the ligature.
The varicose aneurism there is a communication between
the artery and vein by means a tube similar to the
branch of an artery - the vein dilates - cure this by tying the
tube as you would the branch of an artery -

When the femoral artery is tied the sac is generally absorbed - but sometimes the parts sac suppurates and I prefer opening the abscess below the sac - it is always ~~the~~ right to apply a tourniquet round the thigh high up - and incision about 4 inches long to be made by which you expose the sartorius muscle; under this muscle you find the great vessel - you must expose the inner edge of the muscle in order to find the vessel - having exposed the vessel, cut thru the fascia on each side of the artery - then the vessel may be taken ^{up} by passing a curved needle under it, armed with a quantity of thread; by raising the thread if you stop the pulsation you may be sure of having secured the artery and you may tie it - two ligatures instead of one are directed by some to be used - I have adopted this method - the operation being completed, the edge of the wound are to be united with Comp. Adh. at the end of 3 or 4 weeks the ligature sloughs off and the wound gets well.

Febry 14 1840

Tracheotomy is an operation which is performed in cases of tumors forming so as to suspend respiration - sometimes instead of an operation a catheter is to be passed into the glottis - when there is a tumor in the mouth introduce the catheter by the nose - under such circumstances tracheotomy is often performed - there is no risk of hemorrhage in introducing a catheter into the wind pipe, but there is a risk in Tracheotomy - the operation of opening the wind pipe becomes requisite where foreign substances are in it and cannot be coughed up -

+ the incision to be between
the cartilages transversely

Polypi in the trachea also render an operation necessary — when a substance falls into the wind pipe there follows violent coughing and the substance is not always coughed up — the matter remain there often for years — it is of importance to know whether the substance be in the trachea or the oesophagus — to fix the matter introduce a catheter into the trachea — the catheter should be large — when the catheter enters the larynx it occasions violent coughing and if a flame of candle be placed at the end of the catheter, it will be blown out — when introduced into the pharynx there is less irritation — if you inject a liquid into the oesophagus there will be no inconvenience but if you inject it into the trachea, there is violent retching and the matter is thrown off — the tube should be run & then taken out of the trachea & cleaned —

when the operation becomes necessary, there are two ways of doing it

Tracheotomy consists in dividing the trachea at one of the rings — it may be divided longitudinally if necessary — in performing the operation the patient must be seated and his head inclined — a bistoury and canula are necessary — the surgeon makes an incision an ~~incision~~ inch long from the cricoid to the thyroid cartilage — the canula is to be introduced and covered with + Gause — if it be necessary the cricoid cartilage may be cut entirely through — the wound may be closed and easily united when it has been made merely to take away foreign substances — foreign substances get into the oesophagus and occasion violent spasm — they must be extracted or forced into the stomach —

When the substance is fixed at the upper part of the oesophagus, the surgeon can extract them, by passing down the roof of the mouth - emetics may be given to throw up some substances - fish bones, needles &c are thus extracted - The Coopers first line of Surgery there is a good contrivance mentioned to extract such matters - it is sometimes absolutely impossible to extract matters in this way - the matters in the oesophagus sometimes occasion inflammation & suppuration and even gangrene - needles that have been swallowed travel thro' the body and come out at other parts of the body - In attempts at suicide the trachea and oesophagus have been cut without injuring the carotid arteries - Achini & large tumors often prevent free respiration and deglutition - when the patient is unable to swallow give him nutritive glysters and introduce a tube into the stomach by which food may be conveyed - Mr Hunter proposed to pass an eel skin in the oesophagus thro' which he injected nutriment into the stomach - a large tube may be introduced & a syringe fitted to it, by which food may be injected freely - Desault used this mode -

Stricture of the Oesophagus - this being a muscular canal it is capable of contraction & dilatation - it is often affected with violent spasm - if it be not attended to there will be an obliteration of the canal - Mr Hunter has given an account of this - In all these instances the pain commences with difficulty of swallowing & every act of deglutition gives great pain - emaciation follows -

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if the patient be not soon relieved he will actually
starve to death - I have seen such cases - Mr
Horne recommends to introduce bougies of waxed
linen - beginning with small ones and afterwards
using larger ones - these sometimes are like those
in the urethra - when the bougies fail, use
dunar & aurtic - apply the caustic on the bougie
and introduce it - repeat this operation as often
as necessary - the bougie should be curved -

Polypt - there are fleshy substances arising
from different parts - the nostrils are the most
common seat of it - they begin with small pale
tumors, beginning at the os sphenoidum - watery
eyes attend - sneezing is frequent - the tone of
voice is much altered - the weather influences
this disease - it is worse in wet weather -
gradually augmenting in size the tumor at
length obstructs the passage of air into the nos-
trils - it becomes visible anteriorly and at the
fauces over the velum pendulum palati -

The eyes are constantly effused with tears in con-
sequence of the obstruction of the nasal duct -
sometimes ulceration follows - the entrance of
air into the nose being stopped, patients keep the
mouth open - hearing is injured in account of
the obstruction of the Eustachian tube - the ap-
pearance of the face is altered - head ache
comes on - bones become carious - the tumor often
ulcerates - hemorrhage often comes on - the
teeth come out of their sockets - in the last stage
of disease, stupor, coma & come on and death
follows - the cause of the disease is unknown -

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In the commencement of the disease the tumors should be extracted directly — I refer you to Bell's Surgery —

Feb 16th 1810

Schirrus and Cancer — Schirrus is a hard tumor possessing little sensibility — when this tumor is ulcerated it is called Cancer — sometimes Schirrus terminates without cancer — in the mammae such tumors often occur if they do not yield to low diet, evacnants &c it is best to recommend their extirpation — Schirri often arise without any chronic cause, but they sometimes arise from blows — Schirri may last a long time before ulceration takes place — when a Schirrus tumor is changing to cancer it becomes painful — its colour changed to purple — it is at length surrounded with varicose veins — the part becomes turgid — violent shooting pains attend this state of the disease — they shoot to various parts of the body — sometimes an obscure fluctuation can be felt and after awhile ulceration commences — a fetid sanies flows out & the disease is called Open Cancer — this disease is often quick in its progress and fatal in the issue — when Schirri are known to exist they should be extirpated as soon as possible — the centre of the tumor at first is hard — resembles a nucleus and is very prominent — the circumference of the tumor is not confined; as the disease advances the structure of the tumor is less evident — when ulceration comes on the tumor is changed entirely —

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Sometimes the tumor is contained in a cyst — when tumors are extirpated you can know whether they were cancerous or schirous — we are not always able to know what tumors will or will not become schirous — Mr Home speaks at large on this subject — I think in most cases it would be best at first to try bleeding, blister, low diet, mercury &c and if all fail advise the ~~effusion~~ extirpation — when tumors become painful even tho' we are not certain they have been schirous, it will be best in many cases to remove them — but to this rule there are exceptions — Medical men have never decided whether cancers were contagious — but many declare them to be, very contagious — Cancerous sores are said to emit a fetid halitus capable of communicating the disease — cases of this kind are related — but probably these diseases were not cancerous — I believe that nothing like contagion attends cancer — otherwise we should be always liable to cancerous affections — Cancer has been called an hereditary disease — Mr Home denies this principle in part — Cancer have been divided into sthenic & asthenic by a Professor — the first are cured by extirpation — the latter by tonics — Cancer occur at all periods of life but especially in old age — When Cancer first in women, we are told that the Catamenia are obstructed — Glandular parts are the most common seat of Cancer — the Mammas of females are often affected with them — sometimes the whole mamma is swelled and become disagreeably heavy — sometimes symptomatic fever attends — here depletion of all kinds are used and this often succeeds in curing —

Never attempt the operation unless you are
 sure you can remove all diseased parts but
 in the breast and axilla - If the glands only be
 diseased one incision is enough - dissect the gland out
 tying blood vessels as they are cut -

But often the mamma is to be extirpated and in this case the disease is always cured — sometimes there is chronic inflammation in the mamma — this to be treated with bleeding &c.

Scrophula often occurs in the Mamma of females — where the skin only is affected, there is no danger of schirrus — where a great number of tumors appear, they are scrophulous and not schirrus — It is almost impossible to decide what tumors are schirrus, & what scrophulous — the best way is to decide on extirpation if the appearances tend to prove the existence of schirrus — Sometimes Hydatids exist in the Mamma — it is best to extirpate them.

The Mamma may be enlarged from sympathy — these cases are not dangerous —

Two modes of extirpating tumors are used — viz. Knife and Caustic — the former is much the best — we can cut what we please and limit our operation as we please — when the knife is used the following are encouraging symptoms — 1 Where there are few blood vessels — 2 Where the disease has resulted from accident &c.

Before the operation seat the patient in a good light — make an incision down the tumor — but if the skin be diseased make two incisions in the course of the fibres of the pectoral muscle — when in the armpit, before cutting out the tumor you should secure the vessels by ligature — When the tumor is removed close the wound by adhesive plaster so as to have union by the first intention if possible — the best local applications when cancer cannot be

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Knots like lumps of ³²⁵shot on the skin are
unfavorable — when the tumor feels a lump
it extended to the feet, mole and its ribs
the operation must not be attempted —

removed are hemlock &c

The internal medicines are solanum, opium, arsenic &c
Arsenic has been the chief remedy among Cancer
Quacks — Cancer often exists in the neck and then
removal is very dangerous — Such tumors must
sometimes be removed on account of impeding res-
piration, deglutition &c

Noli me tangere is a disease affecting the parotid
and sub-maxillary glands — the tumor remains long
indolent before it ulcerates — The actual cautery
and common caustic have cured — if it can be
extirpated the knife should be used directly —

There is a disagreeable fetor discharged from these
sores — Sometimes the Tongue is the seat of Cancer —
The lips are also affected with this disease — Calculi
are often found in Schirrus tumors — when on the
under lip it may be easily taken away —

The eye has been extirpated for Cancer —

Cancer of the Rectum has occurred — opiate
Clysters or solid opium in the rectum does good —

The Tunica vaginalis and Bladder are liable to
cancer — The Penis is sometimes the seat of this
disease — it commences in the prepuce — The
glands in the groin are subject to Cancer —

Mr Hay has amputated the Penis when affected
with Cancer — the Uterus is often Cancerous — it
has been advised to remove the uterus but it should
not be done — Schirrus Testicle ends in Cancer
if not soon extirpated — when it becomes painful
on being handled, rough and uneven &c the case
is Schirrus — if neglected it changes to Cancer and
death follows — A scrophulous tumor of the Tes-
ticle often exists — this is often attended with inflam-
-mation — suppuration sometimes follows — if the
disease spreads far, it should be extirpated —

This mode of cutting round the tumor
 is what Surgeons call Marking out
 the prossed —

July 19 1860

In Schurins of the Breast the part should be very carefully examined before an operation - sometimes the disease extends to the axilla - and it will be of no advantage to extirpate the breast unless the tumors in the axilla be also removed - in removing tumors it is of importance to save skin enough to cover the wound - but sometimes, it is necessary to remove all the skin surrounding the tumor - if any portion of the skin be colored and adhering, such portion should be removed - besides taking out the tumor it is best to take a considerable part of the flesh in the vicinity; after the operation the sides of the wound must be connected by Emp. adh - previously securing the blood vessels - it is best to make an incision in the lower part of the breast through the skin and adipose membrane - take up the vessels which are divided by this incision - then an incision is to be made at the upper part of the breast - this incision must be outside of all the diseased portions - run dissect off the adipose membrane - then divide the soft parts down to the Pectoral muscle and dissect off the innervated gland - if any part of the gland adhere to the muscle take it away - then dissect away the skin from the lymphatic gland - next the tumors in the axilla are to be cut out - as soon as you can pass your finger in the axilla above the tumor you need dissect no further - you should not cut off the tumor as yet - a ligature must be tied round above the tumor to secure any

reflex that may be there - then the tumor may be cut away - then the skin may be brought together and retained by Emp. adh.

In Schirrus Testicle if the disease has not gone up the spermatic cord we may remove the tumor - an incision is to be made down the tumor and when the knife reaches the tumor it is best to cut down deep to be certain that the disease is schirrus - then detach the tumor by dissection - lay bare the spermatic cord - a ligature must be applied on the cord high up - for if a part of the schirrus be within the tumor, the disease will certainly continue - I have always drawn the cord at first application ^{the} tight & completely to stop the circulation - this gives some pain - then the cord may be divided and the testicle removed - at ten or 12 days the ligature with the cord sloughs off - the parts are to be brought together and retained so

In Effusions of Water into the Abdomen we are often called to draw off the water - by placing one hand on one side of the belly and pressing it & put the other hand on the other side, a fluctuation is felt and we are sensible that water exists - before operating we should tell our patients that the belly may not contain water - likewise before we operate a young woman we should be certain that the swelling is not owing to pregnancy - the instruments for tapping are a Trocar and canula and another instrument like a lancet -

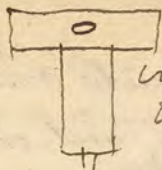
I always make a perforation first with a common lancet and then introduce a cannula or what is a good a female catheter - There are two places in which tapping may be performed - half way between the ilium and the navel - and a little above the ilium - always on the left side to avoid the liver which is often indurated - in the first place of operation the epigastric artery has been cut - it is best to make the puncture half way between the pubis and navel - along the linea alba - let the patient always make water before the operation - it is best to lay the patient on a bed with his belly projecting over the bed side - then introduce the ~~trachea~~ cannula as directed and with a sheet round the belly press the water out - after this put a piece of lint over the wound and it soon gets well -

In difficult breathing we are often called to operate on the trachea - make a longitudinal incision from the Sternum adami over the Cricoid cartilage - then wait awhile till the hemorrhage is stopped - then make a perforation through the membrane between the Thyroid and Cricoid cartilage - The hole the hole made thus would be large enough but it is sometimes necessary to introduce a cannula or something of that kind - but I use another instrument which fits exactly and has a hole in the front which must be covered with gauze to prevent the entrance of insects -

There are 4 modes of removing Polypsi— by ligature
 by the knife, by caustic and by forceps—
 The last is the best mode—

+ a double canula's requisite.

+ the wire may be removed after it has been on
 36 hours—



instrument to be introduced into the trachea -

The operation for Polypos Nasi - This is performed by Fox generally - but some have operated by introducing a wire round the polypus, letting it lay there till the tumor came away - sometimes the polypus is so large that when it gets loose and falls down, it almost suffocates the patient - in such cases it will be best at first to secure the tumor by a ligature - sometimes a large polypus tumor extends to the fauces from the nose - here it is best to secure it by a piece of tape - the hemorrhage is seldom alarming from this operation - you may stop the bleeding by stuffing the nostrils with soft tow -

Schirous Tumor sometimes impairs the voice and hinders deglutition - as soon as the tumor becomes visible it should be extracted - this may be done by securing a wire round the neck of the tumor thereby impeding circulation and destroying the life of the tumor - then the tumor will slough away in about 10 days or 2 weeks - sometimes after the wire has been on a few days the tumor is best removed by a pair of Tonsil scissors -

Sometimes foreign matter get into the Oesophagus and they are generally removable by an instrument called Proban consisting of a piece of sponge fastened to the end of a whale bone - sometimes the substance sticks in the oesophagus and is kept there by spasm - I have seen such cases - sometimes vomits will remove such substances -

Hæmorrhoidal tumors are of acute and chronic form - they may exist within and outside of the rectum - in acute stage, antiphlogistic regimen must be used, horizontal posture, lenient purges, and the pain may be relieved by puncturing the tumor - an ointment of oak galls and lead, also different astringents are useful after inflammation is lessened - the tumors may be extracted by ligature - the tumors never be removed by incision - after the ligature has been applied 30 hours it may be removed for the tumor is now dead - considerable pain attends the application of the ligature - the tumor sloughs off in a few days - the tumor inside is sometimes so large as to fall down and produce Prolapsus Ani -

This disease occurs also in children and is very painful - when it is produced by descent of a tumor it is cured by extracting the tumor - the most effectual mode of curing this disease is by strict attention to diet - soft food should be used, as mush, and a horizontal position should be observed - thus the disease is cured in a few days and does not often return -

+ tie ~~around~~ the upper part first -

there is often a fissure in the palate
which heals up after the operation -
there is sometimes considerable hæmorrhage
which must be attended to -

Vomits have always been useful in giving relief - nausea relaxes the spasm - fish bones are often lodged in the throat and they may be removed often by introducing the finger -

Flare Lip - this disease is always situated in the upper lip, with very few exceptions. Sometimes there is but one fissure but often there are two - in children this disease renders sucking the mother's milk impossible - one should paring off the ends of the fissure and unite the parts by suture - when a tooth projects, remove it immediately - the operation in children should be done ~~as~~ very soon - in paring off the sides of the fissure one must do it completely and cut the angular part out entirely - you should always be provided with pins, the body of which must be silver - the point should be steel and should be moveable with ease -

The wound made by paring the edges of the fissure soon heals - the edges are to be cut with sharp scissors. The angle must be cut out entirely - then the sides of the wound are to be placed accurately together - then pass one of the pins and tie some thread round it to secure it - then pass another pin and secure it as before - the thread should be passed over the pin - after 4 days the sides of the wound adhere by union by the first intention - the thread acts as a piece of sticking plaster - thus a handsome lip is left - the pins should be removed in 4 days - the ligatures may be left -

Amputation becomes necessary in case of compound fractures where there is great laceration - it is always best to amputate immediately - great hemorrhages often occur in compound fractures and this in some cases is an argument in favor of amputation -

Another case in which amputation is necessary is where there is laceration and wound of a limb, without fracture -

Amputation is sometimes necessary in case of a limb being partly torn off - the remaining parts being ragged, it is best to take them off by an operation - mortification of a limb in some cases requires an operation but the limb should not be taken off until the mortification has stopped - where mortification takes place round in an extremity, amputation is unnecessary, because the soft parts slough away and the bone is merely to be cut off - White Swellings often occasion caries of the bone, hectic comes on and it is necessary to take off the limb - this should be done even where diarrhoea existed, night sweats, were violent and the symptoms all discouraging - I never saw a death where amputation was performed under such circumstances -

Amputation is called for in case of large exostoses of the bones - Another cause requiring amputation is an extensive caries - There is a disease called *Fungus Hematodes*, which occurs in the extremities and resembles cancer - when this exists in a joint, amputation must be performed - Sometimes amputation is necessary on account of large

To remove a Metacarpal bone defect on
 each side of it from the angle of the finger, rest it -
 then introduce the Metacarpal saw and cut away -
 afterwards close the wound & keep it with Emp. adh.

tumors forming on a limb. I have seen such cases - I have extirpated the tumor in the first place, but the same kind of disease always followed spreading much larger than the original tumor. Such cases require amputation. Lacerated wounds call more for amputation when a joint is concerned in the injury. We are seldom called to amputate a finger - it is best done at a joint - a scalpel is the best instrument - first cut thro' the skin and then cut the lateral ligaments - the disjunct are of little importance but may be easily taken up if necessary - but a piece of lint at the end of the finger generally stops the hemorrhage - the incision being made below the joint, skin enough is left to cover the wound and you apply Emp - adh - over the part. It is seldom that we are called to remove a Metacarpal bone. Amputation of the Thigh - it is necessary to have a tourniquet, bandages - a large knife, which must be very sharp - a scalpel - a retractor - next a saw - sponge, warm water, ligature, needle, tenaculum - linen with cerate, tne and bandages - have at hand some wine & water to give the patient when the arteries are tied up - before the operation give the patient a dose of Laudanum - next apply the compress bandage high up - next the tourniquet - to stop the circulation of the blood - an assistant must grasp the limb and pull the skin upwards - then cut through the skin down to the muscle - then with a scalpel dissect the adipose membrane from the muscle & shut away and turn the skin back - then with the large knife cut thro' the muscle down to the bone - next apply the retractor to pull back the muscle - next divide the bone

Operation for amputation of the leg

The patient being properly secured apply a tourniquet over the femoral artery to stop the circulation of the blood. Then an assistant is to seize the leg at the knee and pull up the skin. Then the surgeon is to take the large knife and cut thro' the skin with an oblique incision, that is the incision is to be carried lower down on the ~~anterior~~ ^{posterior} of the leg than before. The skin is to be separated with a scalpel from the cellular membrane and turned up towards the knee; then the muscles are to be divided down to the bone; then with a knife for that purpose the muscular flesh between the tibia and fibula is to be divided; then apply the retractor by which the flesh is to be drawn up towards the knee; then with a saw divide the bones; take up the vessels, clear the stump and apply dressings as in amputation of the thigh -

* called a Catling

Then wash the stump with warm water - then Tie up the femoral artery by passing a needle through the flesh round the artery - if any other arteries are cut take them up - then ~~and~~ loosen the tourniquet to let the blood flow - then take off the compress band - wash away all clots of blood from the stump - then apply a bandage above the pelvis and bring it down the thigh - then draw the sides of the stump together with Emp. adh so that the edges of the wound will form an angle from side to side - I always leave a part of the wound unapproximated - leave the ligature from the artery cut at the edge of the wound - next apply tye to the stump with cerate spread on it - then apply tye and continue down the roller from the thigh over the end of the stump - then the tourniquet should be placed loose on the limb -

July 23^d 1810

Amputation of the Leg - In addition to the instruments mentioned, some others are necessary - as a sharp knife, and a pair of pincers of a large size - we may amputate either below the knee joint or above the ankle joint - the former is much the best method, because the limb is afterwards more useful to the patient - the operation performed - the stump is to be cleaned with sponge & warm water and the parts are to be brought into contact - the operation is the same as that of the thigh nearly -

Venerereal disease - It is produced by a poison formed in the organs of generation and it's a communicable disease even without the rupture of the cuticle - though it excites inflammation yet that inflammation is not really necessary to the disease - Its primary symptoms are Gonorrhoea and Chancre - some add Bubo - it has been discussed whether these result from the same cause or whether they are all the same poison - The usual course of Gonorrhoea is independent of all other symptoms - it is attended with a disagreeable pain called Chordee - Mr Hunter says that Gonorrhoea does not then produce Chancre & Syphilis - Persons differ extremely in their susceptibility to this disease - several men may be connected with a woman - all of them but one may have the venerereal disease from her, and that one may not be affected - it appears that Syphilis is nothing but protracted Gonorrhoea - If there be one case in which Gonorrhoeal matter produced Syphilis, it is sufficient to establish their identity - and many such cases exist and are recorded - A doctor related cases in which Gonorrhoeal matter produced Chancre - Mercury is seldom necessary in Gonorrhoea - but in Lues Venerea this medicine must be used - When I see Gonorrhoea attended with large discharges and Chancorous ulcers I can easily distinguish them - I assert that Gonorrhoea & Chancre are derived from the same source & are the same -

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Gonorrhoea is a discharge of matter from the Urethra - in males the glans prepuce is often affected - in women the vagina is affected also the urethra & the disease appears after contact in 3 days and from that to 3 weeks or longer - two or 3 days commonly elapse before the disease shows itself - some have thought that the various grades of virulence were indicated by the appearance of the disease sooner or later - but this is not a correct hypothesis - sometimes there are no premonitory symptoms - but there are often preceding signs of inflammation - Gonorrhoea does exist without ulcers in the urethra - Chancres may exist in the urethra at the same time that Gonorrhoea is present - it is sometimes difficult to distinguish Gonorrhoea from other discharges - itching begins at the orifice of the urethra spreading over the glans; inflammation comes on - pain and a scalding in making water - sometimes the discharge is the first symptom and in some the discharge is preceded by pain and difficulty of making water - excoriation of the orifice of the urethra and hemorrhage from the glans sometimes comes on - abscesses frequently form in the urethra and make fistulous sores - erections of the penis occur called Chordee - the running is commonly white or yellowish and thick - at other times it is greenish and very thin - the glands of the groin sometimes inflame and swell - the urethra mostly inflames at its orifice but this frequently pervades the whole course of the urethra to the bladder and gives great pain - where the discharge of matter is great the glans penis are supposed to contribute to the discharge also Cowper's glands - Inflammation often attacks the prepuce forming Phimosis -

The penis is sometimes subjected to a curvature - this lasts long in some cases - the inflammation often ends in Gangrene -

Cure of Gonorrhoea - We are often called onto give immediate aid in this disease - it is in some instances, possible to cure in a few days - sometimes we are baffled for many months - if the disease does not extend far into the urethra we may cure in 6 or 8 days - I have known one injection perform a cure - where the disease deeply affects the urethra we will find it difficult to cure in a short time - there is one venereal affection so deceitful to the practitioner as Gonorrhoea - from what I have said you might suppose that Syphilitic remedies should cure gonorrhoea, but this is not the fact - sometimes the disease cures itself - mercury is now laid aside in this disease - demulcent medicines have been used - also evacuates according to the notions of practitioners as to the nature of the complaint - the object of demulcents is to blunt the acrimony of the matter discharged - evacuates are sometimes very necessary - bloodletting is not always necessary - Ouzes of an active kind should be used - an entire abstinence from spirituous liquors - exercise should be very moderate and all irritation avoided - when the symptoms are violent use opium and often anodynes - there are some constitutions which get worse by the use of evacuates - and here we find Bark serviceable - demulcent medicines as the lily seed tea &c are useful - the latter must be taken in large quantities - nitric may be used to promote the discharge of urine - Bals. Copiaivi may be given to 20 or 30 grs 3 or 4 times a day - ʒss of black resin may be given -

Local remedies, are various injections, and bougies—many cases have been cured by the above named medicines—but we must not depend solely on these. The injections are various, mucilaginous, mixtures, and olive oil are often found useful. As soon as a patient consults you with a discharge from the urethra, examine him to see if much inflammation exist. *R* Sulph. Zinc gr v - Acet. Plumb gr. ss - Aqua Zing. m. ft. injectio. This is strong enough to begin with—let the patient use moderate exercise, and if inflammation supervene, bleed your patient—very disagreeable effects often follow the use of too strong injections—a solution of alum in water is a good astringent, also a solution of oak galls—When inflammation runs very high, the mode of treatment is different—I have known the free use of wine increase the violence of the disease in this stage are leeches—mucilaginous injections & give opium at night either by the mouth or in the form of Glyster—ss drops of Laudanum with Zij of water or starch and water make a good injection—Barley water may be thrown into the bladder by means of a catheter introduced into the urethra—I use the following
R Calomel ℥i - Garlic Zss - Aqua Zing. - Laudanum Zij - m. ft. injectio. if this be too irritating, omit the Calomel. An occasional Symptom of Gonorrhoea is Swelled Testicle—this depends on a suppression of the discharge—the discharge should be restored by injections. The patient should lie down—wear a suspensory bandage—bleeding & purging—leeches to the scrotum—poultice of linseed oil mixed with lead water—emetics have removed the swelling of the Testicle—give opium to allay the pain—the spermatic cord is often very sore—

~~Chloride in women!!!! - the dickens & that~~
~~and of my sight. rally. in~~

There is pain in the back - nausea & vomiting often comes on - Sometimes scullled testicle comes on while the discharge continues, but the discharge soon ceases - introduce bougie - some recommend the introduction of Gonorrhoeal matter to the Urethra - Gonorrhoea in Women - it is often difficult to be certain that women have this disease - the discharge commonly comes from vagina only - but sometimes it comes from the Urethra - in this case also urine comes on - the cure is nearly the same as in men - antiseptic injections cannot do harm - cleanliness should be observed - where the disease is violent, use Tinct. Cantharide, internally - when the discharge ceases, women are supposed to be well, but this is not always the case - the discharge very often returns - after all the virus is removed, an obstinate discharge, called Gleet often remains - ~~sometimes chronic gleet~~

Gleet - is a preternatural discharge from the urethra in men and the vagina in women while no inflammation exists - it is merely an increased secretion of a natural discharge - Tonics are almost always proper in these cases - I have seen very use of Peru Bark very successful - Purgs have succeeded - if the stimulating plan fails resort to others - Bals. Capivi has been used in Gleet - but the Rosins are as good as this - the cold bath is sometimes very useful - Tinct. Cantharide is one of the best remedies - use it at first in very small doses - R. Cantharide ʒss - Aqu. ʒss - ʒss 3 times in die - local remedies are Bougie and injections - the injections should be varied - Rosulph. ʒi - Acet. Plumb. ʒss - Corrosive Sublimate ʒss - Aqu. ʒss - ʒss 3 times in die - use the injection some time after the discharge ceases -

854 Feb 20th 1880

Chancre - some persons are predisposed to chancre more than others - persons in whom the prepuce is short are less subject to chancre than others, because the matter is more easily wiped off - Those who have had venereal ulcers, are liable to have them again - venereal ulcers may be formed on the lips by kissing a person under the affecting venereal disease - The seat of chancre in man is on each side of the prepuce - chancres may be formed by the contact of venereal matter to an ulcer - sometimes chancres will appear within hours after contact, and sometimes not before 3 or 4 weeks - The number of chancres varies considerably - a simple first form, with a little hardness attended with pain - excoriations occasionally occur and ulceration follows constituting chancre - sometimes the inflammation extends and diffuses - chancres never cure themselves - use mercury to prevent the contamination of the whole system - it is possible to cure them with local remedies - Caustics are used - mercury will cure often without the aid of any local applications - The best practice is to use both local & general remedies - sometimes the constitution requires the use of Tonics - Mercury alone does not perform a speedy cure in every case - This is an objection to this remedy - an objection to local remedies is the danger of contamination to the system by absorption or sympathy - it is always best to destroy the surface of chancre by means of caustic -

The first of these is the fact that the
 human mind is not a blank slate at birth.
 It is filled with a vast amount of
 information which it acquires from the
 world around it. This information is
 stored in the memory and is available
 for use at any time. The second fact
 is that the human mind is capable of
 learning from experience. It is able to
 take in new information and to
 integrate it with the information already
 stored in the memory. This process of
 learning is what allows the human mind
 to grow and to develop. The third fact
 is that the human mind is capable of
 reasoning. It is able to take in
 information and to use it to draw
 conclusions. This process of reasoning
 is what allows the human mind to
 solve problems and to make decisions.
 The fourth fact is that the human mind
 is capable of feeling. It is able to
 experience a wide range of emotions,
 from joy and happiness to sadness and
 pain. These feelings are what give the
 human mind its richness and its depth.
 The fifth fact is that the human mind
 is capable of imagination. It is able to
 create images and ideas in its mind
 that are not based on reality. This
 process of imagination is what allows
 the human mind to create art and
 to invent new things. The sixth fact
 is that the human mind is capable of
 communication. It is able to share its
 thoughts and feelings with other people.
 This process of communication is what
 allows the human mind to form
 relationships and to build a community.
 These six facts are the basic facts of
 the human mind. They are the facts
 that make the human mind what it is.
 They are the facts that make the human
 mind a unique and wonderful thing.

The Caustic should be scraped at the end to a point. it should be applied frequently until the surface of the sore is removed - when this is the case apply lint over the surface - in old chronic Chancres where the ones spread rapidly, the Knife must be used to extirpate the part - Mercurial ointments have cured chancres by their eschaestic powers - where Calomel is used externally mix it with mucilage or oil - vary the ointments if one does not succeed - The Ointment of Precipitate is used - mercurial ointment - washes of different kinds are useful where Chancres are so situated as not to be reached easily with Caustic - these washes are of vitriol copper &c - when we believe inflammation is coming on, advise rest & antiphlogistics - chancres under the prepuce are treated with Eucrobine sublimated washes - 1 gr of sublimate to 3 i Aqua - this is to be injected - Mucilage may be used instead of the water - Opium may be added where the pain is great - if there increase the inflammation lay them aside - where the Phymosis is violent use lead water - an operation is sometimes requisite - if the swelling is so great that no Knife can get under the prepuce, dissect this carefully - sometimes it is necessary to take off the whole penis - Calomel should be used to salivate - the Blue Pill is useful - When Mercury is used by some secrecy is an object of some consequence of this disease - when the Mercury affects the mouth leave it off and again renew it -

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 that the mind is able to take in new
 information and to use it to modify
 its existing knowledge. The third fact
 is that the human mind is capable of
 reasoning. This means that the mind
 is able to take in information and to
 use it to draw conclusions. The fourth
 fact is that the human mind is capable
 of imagination. This means that the
 mind is able to create new images and
 ideas. The fifth fact is that the human
 mind is capable of emotion. This means
 that the mind is able to feel and to
 express its feelings. The sixth fact is
 that the human mind is capable of
 communication. This means that the
 mind is able to share its thoughts and
 feelings with others. The seventh fact
 is that the human mind is capable of
 problem solving. This means that the
 mind is able to take in information
 and to use it to find a solution to a
 problem. The eighth fact is that the
 human mind is capable of decision making.
 This means that the mind is able to
 take in information and to use it to
 choose between different options. The
 ninth fact is that the human mind is
 capable of planning. This means that
 the mind is able to take in information
 and to use it to make a plan for the
 future. The tenth fact is that the
 human mind is capable of reflection.
 This means that the mind is able to
 take in information and to use it to
 think about its own thoughts and
 feelings.

Venereal warts are subject to chancre —

they are sometimes the consequence of Gonorrhoea —
 they occur in different places as on the thighs &c —
 they are to be removed by ligature and the parts
 are to be touched with Caustic — this prevents
 them from growing a second time — electricity has
 destroyed warts —

Bubo is a swelling of the lymphatic glands
 excited by venereal poison absorbed. they occur
 in various situations — sometimes the constitution
 is contaminated without the formation of bubo —
 Chancre is often the cause of bubo — it begins
 with pain and a small tumor in the groin — the
 tumor enlarges and advances rapidly to sup-
 puration — they are at first circumscribed and
 moveable under the skin but not so afterwards —
 it is always best to attempt to discontinue them first —
 local remedies must be aided by Mercury in-
 ternally used — resolution cannot always be ac-
 -complished — use all the remedies proper for
 inflammation — the bubo may be rubbed
 with Mercurial ointment, also the thigh —
 the quantity of mercury necessary to cure is very
 uncertain — apply leeches and afterward blis-
 ter to the tumor — give cathartics daily and
 advise low diet — we cannot always prevent the
 suppuration of bubos — we should never cut down
 deep to open bubos — leave them till the skin is
 thinned — when they are to be opened if the abscess
 is small use the lancet — when the pus is evac-
 uated, unite the parts — but if all the pus be not
 evacuated apply pultices — use caustic —

Sea bathing does good in Buboes - Tonsils of various kinds are useful in some cases - if scrophula is suspected exhibit Cicuta -

Confirmed Lues follows the neglect of chance Buboe - the periosteum, fascia, lungs & are affected - first the Tonsils are affected - Refer you to Hunter on this disease - sores appear in the throat, mouth &c - mercury is said to do little or no good in this disease - but Hunter says it may be useful - the venereal shows itself about 6 weeks after mercury has been used for Chancre - blotches appear on the skin, the tonsils are inflamed, then ulcerated - the venereal ulcer in a tonsil looks as if a part of the tonsil had been scraped out - the throat becomes very sore and the head is affected with pain, languor, dejection of spirits, fever & copper coloured spots affect the skin - sometimes a swelling of the skin takes place under which a grey matter is formed - the cure of the venereal sore throat and blotches is effected by mercury in friction and pills - mercurial fumigations are used - Nitric acid has been advised in the venereal disease - I have seen it do good R Nitric acid ℥ij. arabic ℥ij - Aqua ℥vi the ft Mixture - Dose ℥ss 3 times in die - Nodes appear on every bone in the body, but most often on those which have little covering - Caries is often a consequence of venereal disease - many affections result from this disease, most of which are cured by Caustics -

Ophthalmia and deafness have followed the venereal disease — it likewise has produced loss of hair — Hunter denies that venereal poison can produce any peculiar effects on the system —

In lues venerea, diet should be attended to — the food should be changed and a change of situation from the city to the country is very beneficial — when nodes suppurate and form abscesses, open them — and treat them as other abscesses —

March 1st 1810

Stricture of the Urethra — by the term stricture is meant a diminution of the canal at a particular part — this is mostly at the bulb — sometimes in the membranous part — the stricture is sometimes permanent sometimes spasmodic — In the permanent stricture the stream of water is lessened in size — the water sometimes flows as usual — it is not always attended with pain — sometimes pain attends every discharge of urine — the urethra is sometimes violently contracted when spasms attend the stricture, the urine is quite suppressed — intemperance produces this effect — violent exercise — venereal gonorrhoea treated by astringent injection often is followed by stricture — but this disease may take place without any venereal disease — the spasmodic stricture is not so violent as the permanent stricture — it is always best to examine bougies after withdrawing them — their form affords a model — I use bougies tapering gradually to a point — I make them of linen dipped in wax and rolled up to a small size — the body of the bougie should be thick & firm —

Those made of new linen are less liable to tear

O I have my caustic bougies constructed with a cap
on them to prevent injury in passing -

X The penis to be held at right angles to the body -

On This lancet is guarded in a cannula -

Imputed bougies are made of old linen - those which I use are made of new linen - for examining the stricture use a bougie with a blunt point, for dilating the canal use a sharp pointed one - the bougie should be kept in for some time - when bougies are first introduced they give great pain - after a bougie of small size has been admitted use a larger one - the patient should pass the bougie daily for 3 or 4 weeks sometimes the stricture is so narrow that difficulty attends the passage of the bougie - when the stricture is so great as to prevent the passage of urine it creates ulceration beyond the stricture - this ulceration opens externally and creates Fistula in Perineo - this stricture is obliterated in some cases by caustic - this is to be introduced by fixing a piece of caustic to a bougie - in order to open the urethra before passing this bougie, introduce a larger bougie - the caustic bougie is then to be put in sweet oil and introduced, while the patient lies on his back - the caustic may be continued from 2 minutes to a quarter of an hour - it should not be kept on more than 2 minutes at first - repeat the use of the caustic every 8 or 4 days - when the stricture is seated at a before the bulb of the urethra it may be safely divided by a lancet - when this done introduce an elastic catheter - to remove spasm, a warm bath, tobacco, opium &c has been used - read Home, Hunter &c -

Suppression of urine - is attended with violent attempts to discharge the contents of the bladder, which prove unavailing - the size of the bladder gradually increases if relief be not given - mortification sometimes follows - the cause of suppression are various - when we introduce bougies to discharge the urine, all violence must be avoided in passing these instruments -

Q The reason for fixing a piece of Ligature to the Catheter is because the latter will seldom pass of itself on account of the bluntness of its point -

I prefer the Punctum & Rectum, the latter always where the patient is very fat -
 a curved trocar is used - the cannula is withdrawn when Rectum is punctured and a Catheter passed - this to remain 36 hours after which it may be removed - When you puncture above the Pubis before the urine is all discharged pass a female elastic Catheter into the cannula else the sharp end of the Cannula will injure the Bladder -

when the suppression arises from swelling of the Prostate
 gland the urethra is bent considerably and the bougie
 passes with difficulty - it sometimes passes easily by
 being first bent - sometimes it succeeds by retracting
 the stylet when the ^{catheter} arrives at the neck of the
 bladder - I prefer the Gum elastic to the silver Cath-
 eter - if such remedies fail use the warm bath -
 opium in glyster or by the mouth - another instrument
 for drawing off the water is an elastic catheter with a
 piece of bougie secured to its end
 when it is impossible to draw off the water in this way,
 the bladder must be punctured externally above the
 + pubis, at the perineum or at the rectum -

Default: *Chirurgical Journal* referred to -

Calomel and opium have been recommended as the best
 internal remedy in suppression of urine - with
 this I use the warm bath -

= *Trinis*

at a dose

Dr. Chamberlain's dysuria does
 is useless in suppression of urine *Dr. Chamberlain's*

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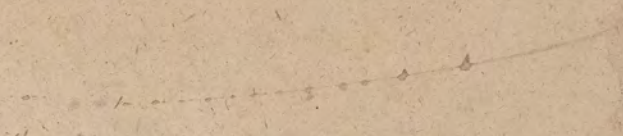
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